CM598G

READ ALL OF THE FOLLOWING INSTRUCTIONS BEFORE REMOVING CABINET FROM SKID

NET-ACCESS N-Type Network Cabinets

TOOL LIST

-Phillips screwdriver	-7mm socket wrench
-Flatblade screwdriver	-T30 Torx bit
-22mm socket wrench	-T25 Torx bit
-15mm socket wrench	-6mm Allen key
-13mm socket wrench	-2.5mm Allen key
-8mm socket wrench	-Wire cutter

INSTRUCTIONS CM598G

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NOTE - Some views in this document may vary slightly from your actual cabinet configuration.

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Note: The maximum static weight load of the cabinet is 3000 lbs. [1361 kg]. The maximum weight load when the cabinet is rolling on casters is 2500 lbs. [1134 kg]. The weight load should be evenly distributed across the height of the cabinet, with the heaviest components mounted at the bottom of the cabinet.

Packaging Material Removal

Before removal of packaging material:

Check tip indicator on the outside of cabinet to ensure cabinet was shipped in the upright position. If tip indicator shows improper handling, inspect cabinet for damage before accepting cabinet.

Before handling cabinet:

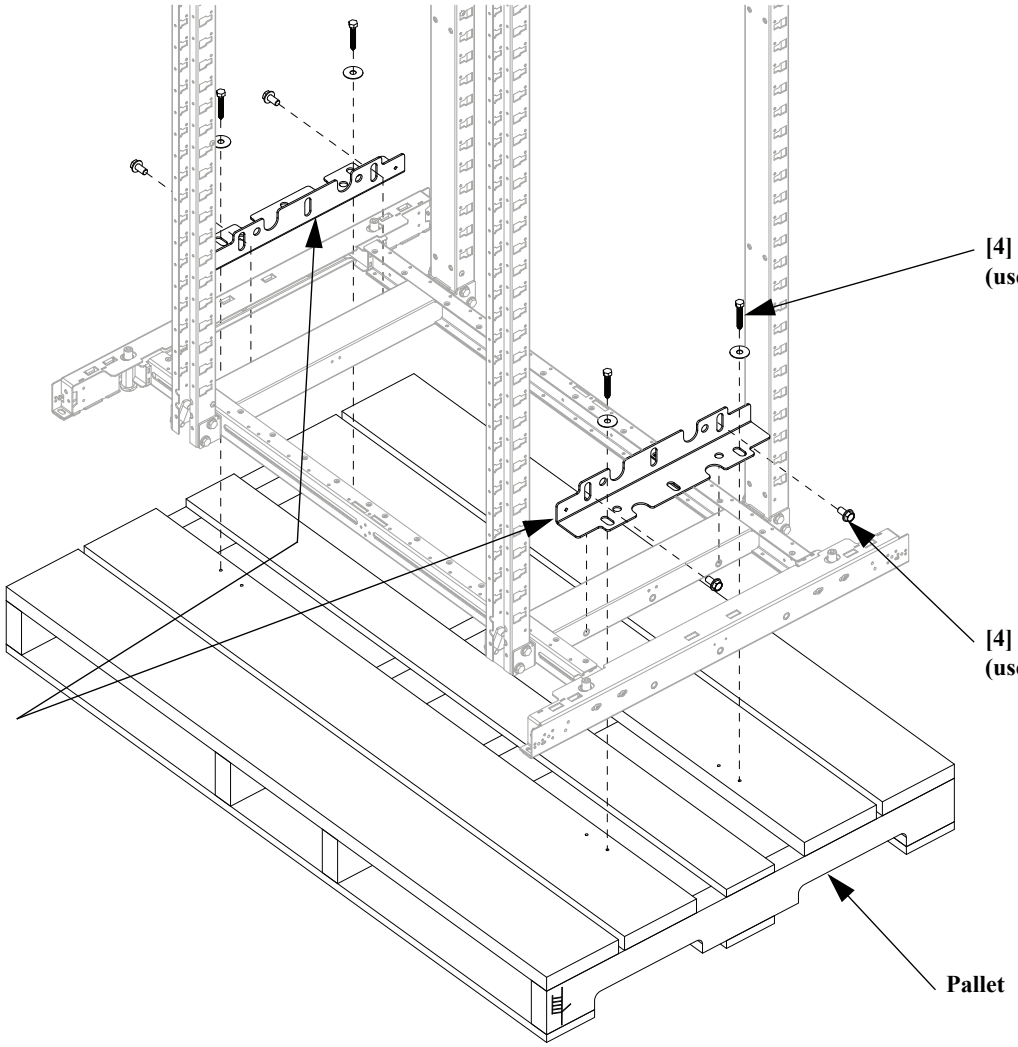
Small glide strips are installed at various locations around the cabinet to protect the cabinet's finish during shipping. These strips are to be removed prior to handling of cabinet.

"Shipping Hold Down Bracket" Doubles as Floor Mounting Bracket. Retain bracket if floor mounting is desired. (see Page 7)

- **Remove all stretchwrap and protective cardboard from outside of cabinet**
- **Remove [2] Hold Down Brackets at front and rear of cabinet**
- **Use [2] people to carefully lift and remove cabinet from pallet**

IMPORTANT:

Leveling Legs must be fully retracted before the cabinet is moved into place. Sliding cabinet on leveling legs may result in damage to the leveling legs.



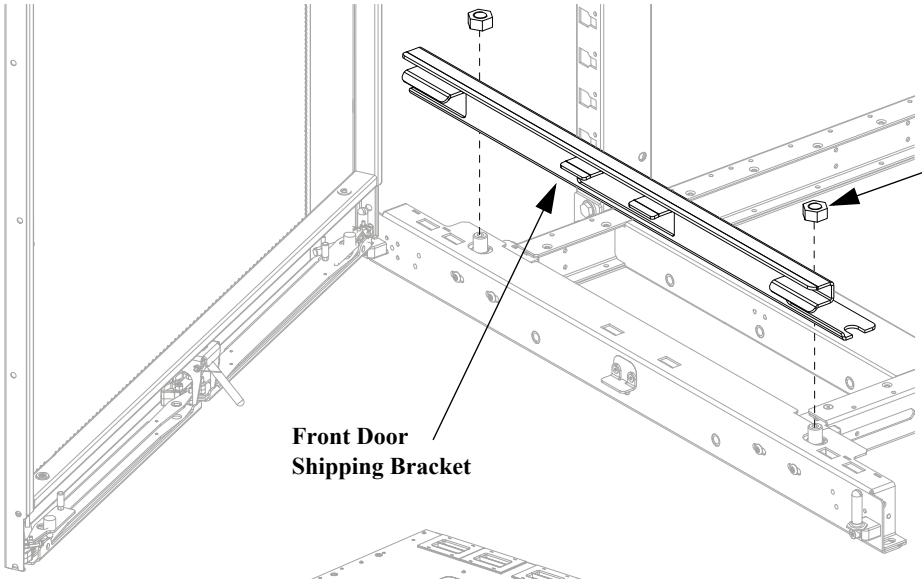
Note: Doors, Side panels, and other components are removed for clarity.

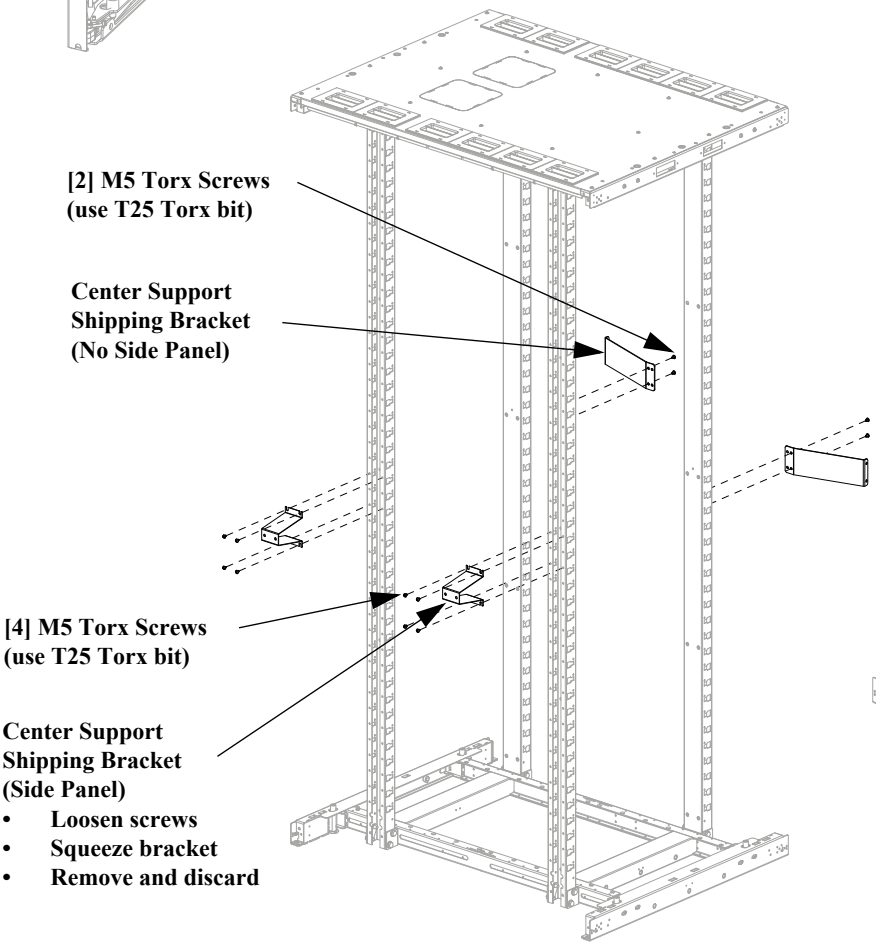
Packaging Material Removal

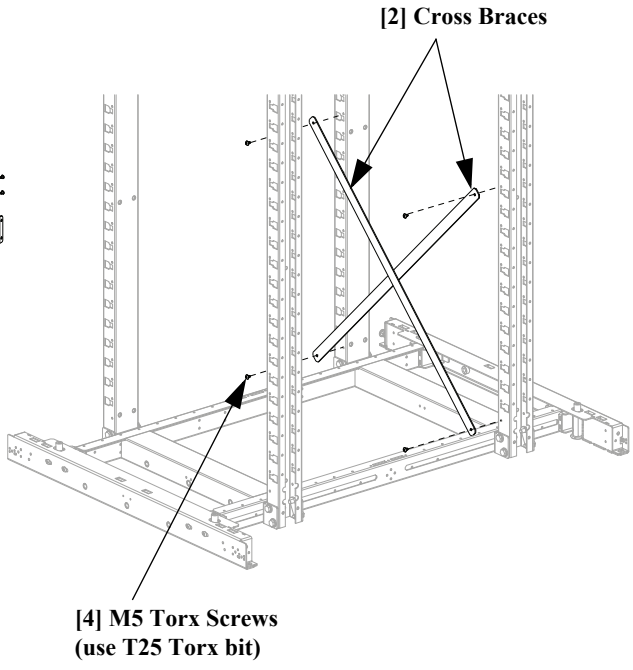
Before removal of packaging material:
Check tip indicator on the outside of cabinet to ensure cabinet was shipped in the upright position.

NOTE: Not all configurations include shipping brackets. Shipping Brackets to be discarded after removal.
All shipping brackets are labeled "SHIPPING BRACKET REMOVE IMMEDIATELY"

- **Remove Front Door Shipping Bracket**
- **If necessary, remove up to [4] Center Support Shipping Brackets from cabinet frame**
- **Remove [2] Cross Braces from cabinet frame**



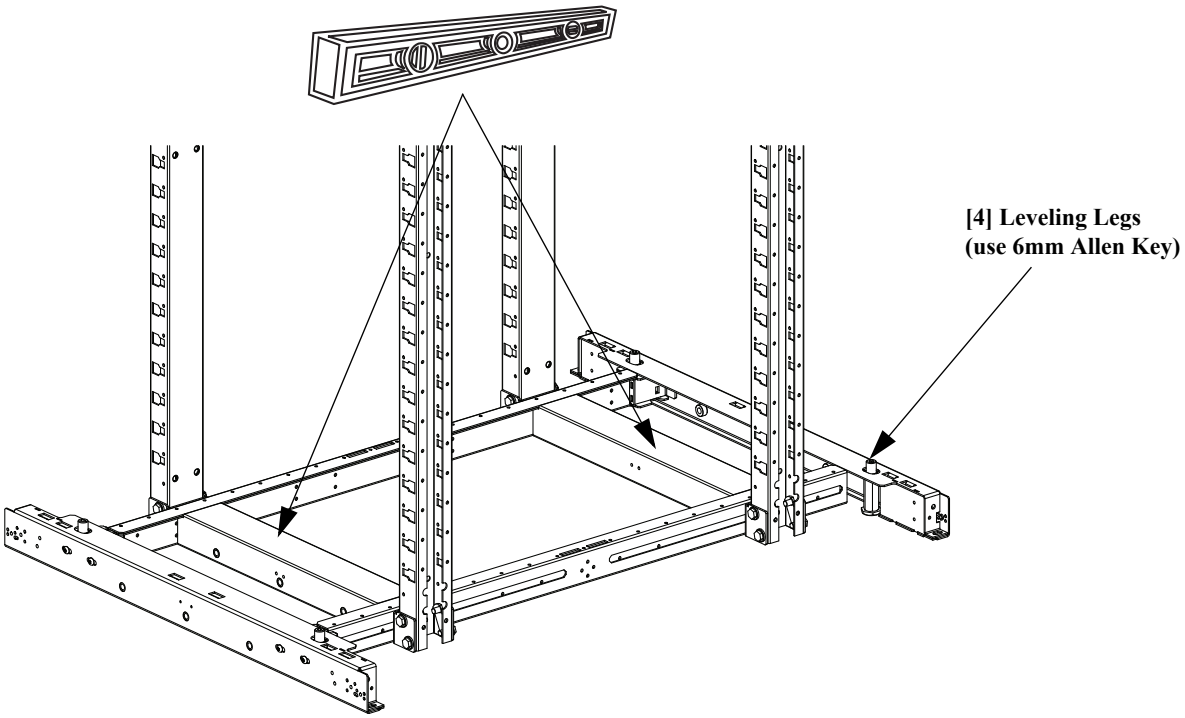




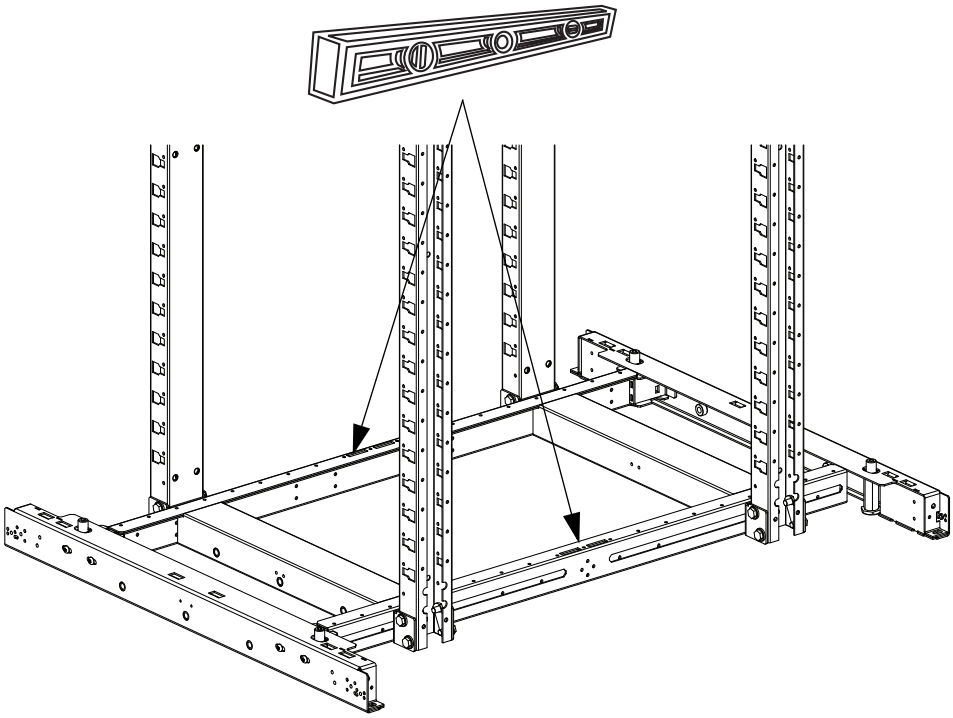
Leveling

- **Ensure that [4] Leveling Legs are fully retracted**
- **Slide Cabinet into final position**
- **Lower the [4] Leveling Legs until the cabinet weight is fully supported by only the leveling legs**
- **Adjust the [4] Leveling Legs so that the cabinet is level front-to-back and side-to-side**

Front-to-Back Cabinet Leveling



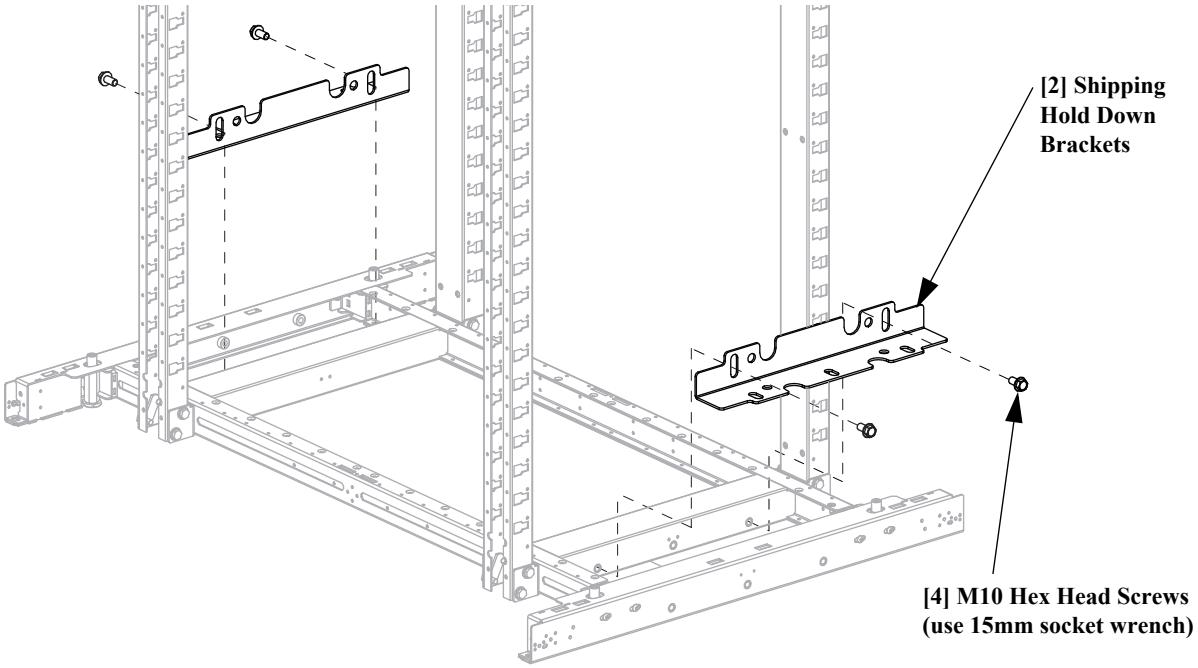
Side-to-Side Cabinet Leveling



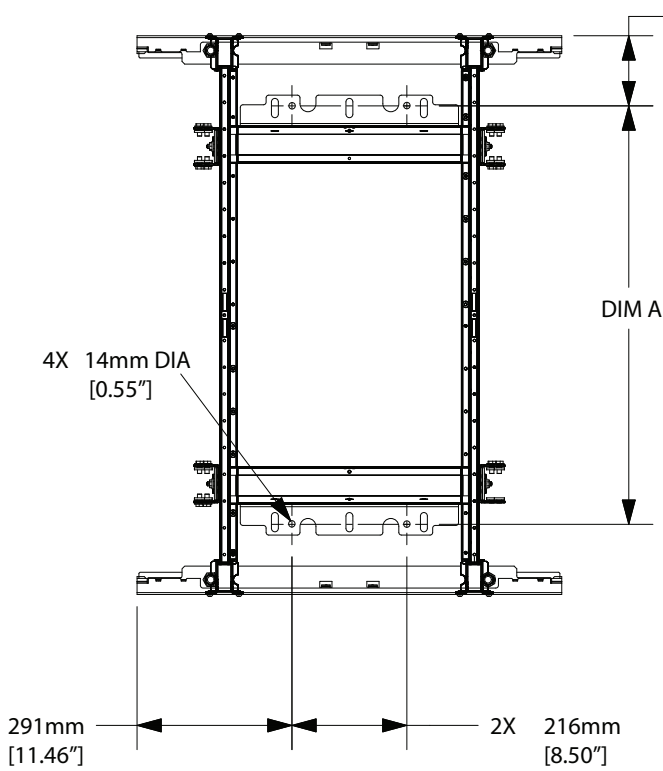
Note: When ganging multiple cabinets together, ensure that adjacent cabinets are adjusted to the same height.

Floor Mounting

- **Ensure that [4] Leveling Legs are fully retracted**
- **If Necessary, secure [2] "Shipping Hold Down Brackets" at front and rear of cabinet**
- **See Floor Mounting View below for floor mounting dimensions**
- **Attach the anchors to the floor with appropriate hardware for your type of floor**



Floor Mounting View



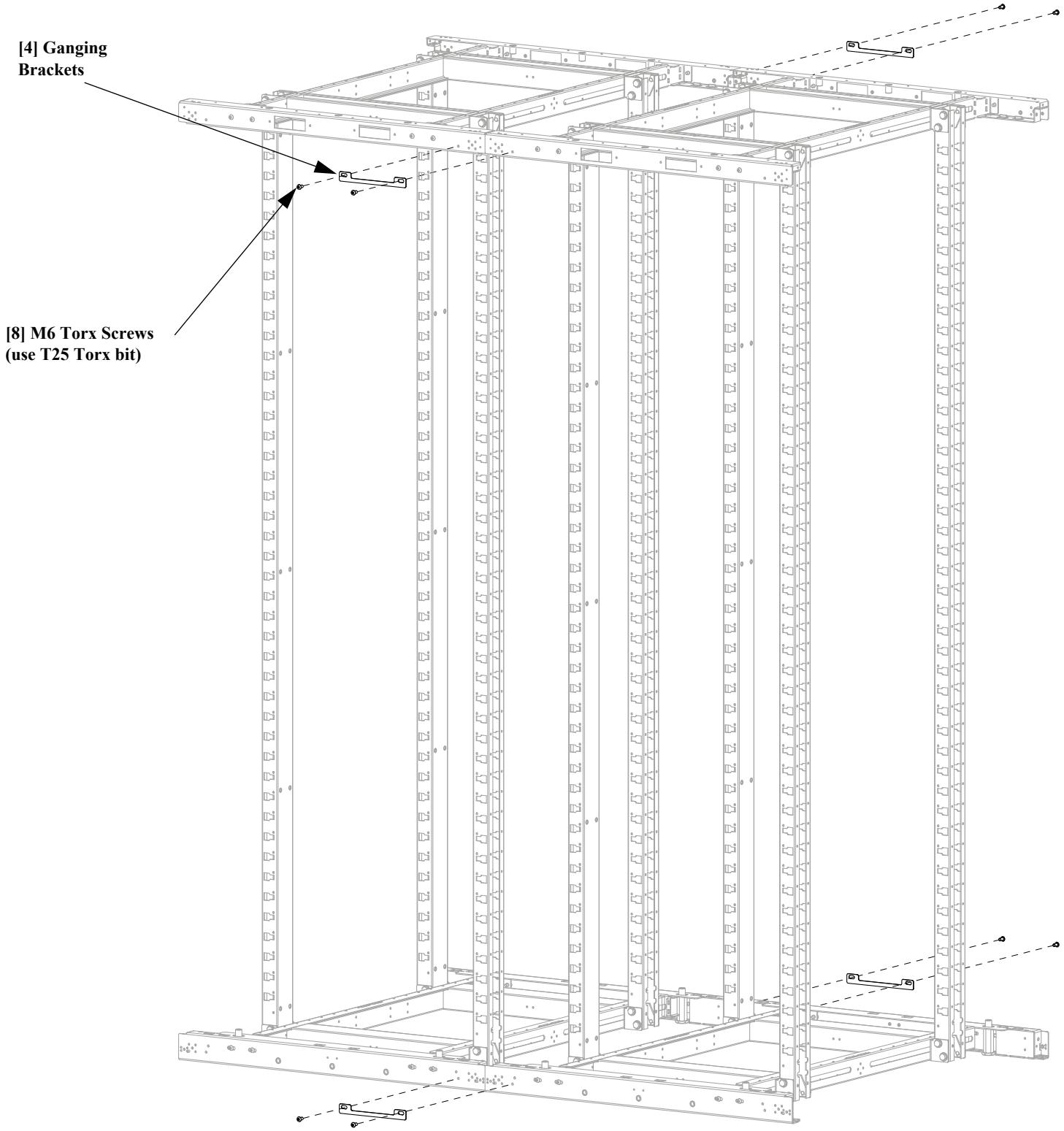
DIM A:
-1070mm deep cabinets: 782mm [30.79"]
-1200mm deep cabinets: 912mm [35.91"]

Ganging

- **Ensure cabinets are level**
- **Secure Ganging Brackets to cabinets at [4] locations shown below**
- **Do not use Ganging Brackets to cinch cabinets together**

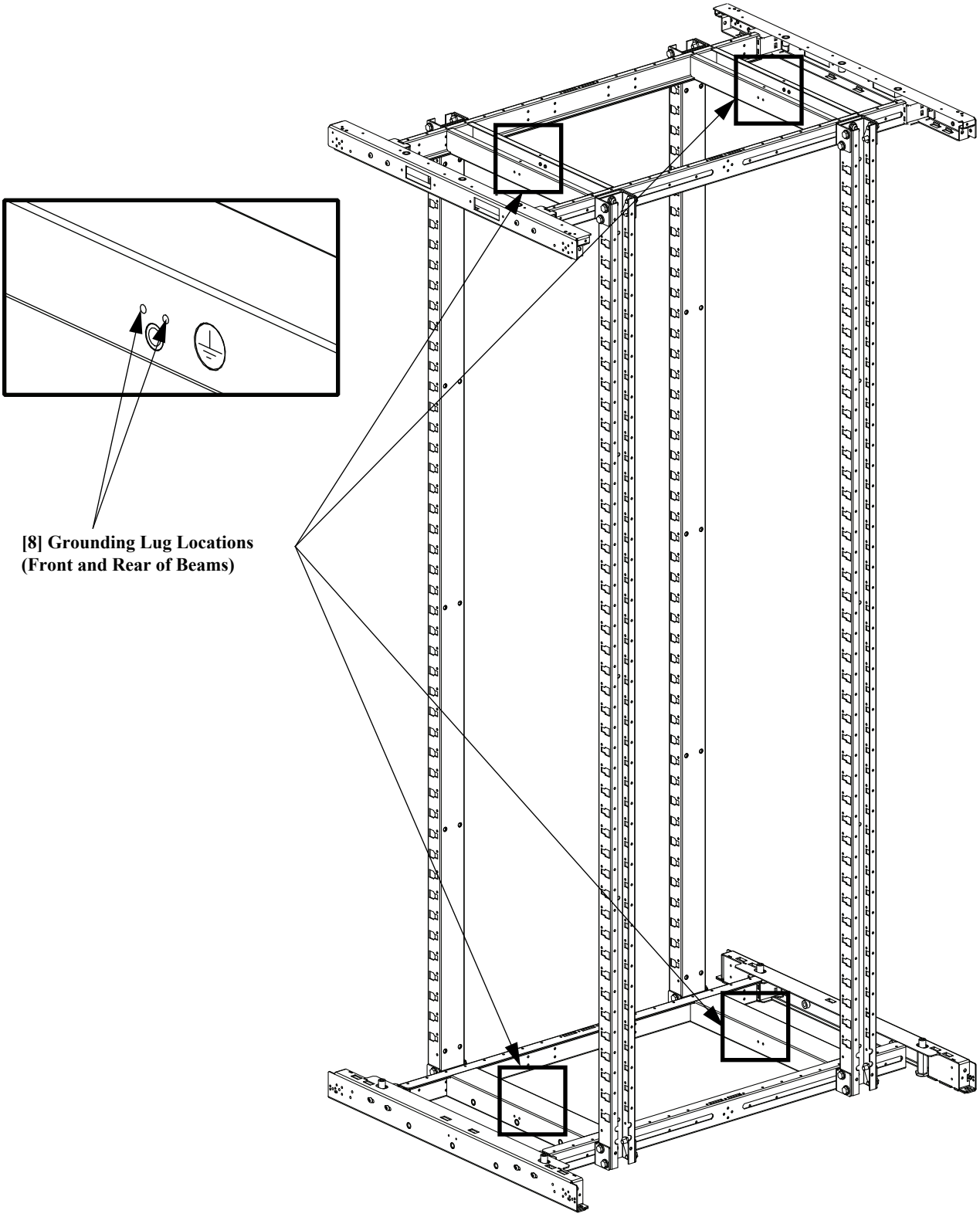
IMPORTANT:

Ensure cabinets are level by following the guidelines on page 6. Leveling the cabinet prior to ganging is important to ensure proper door operation.



Grounding

- **Attach Grounding Lug or Grounding Bar at any of the [8] location(s) shown below**
- **Grounding location is indicated by universal ground symbol**
- **Use M5 bonding screw**



[8] Grounding Lug Locations (Front and Rear of Beams)

Note: top cap removed for clarity.

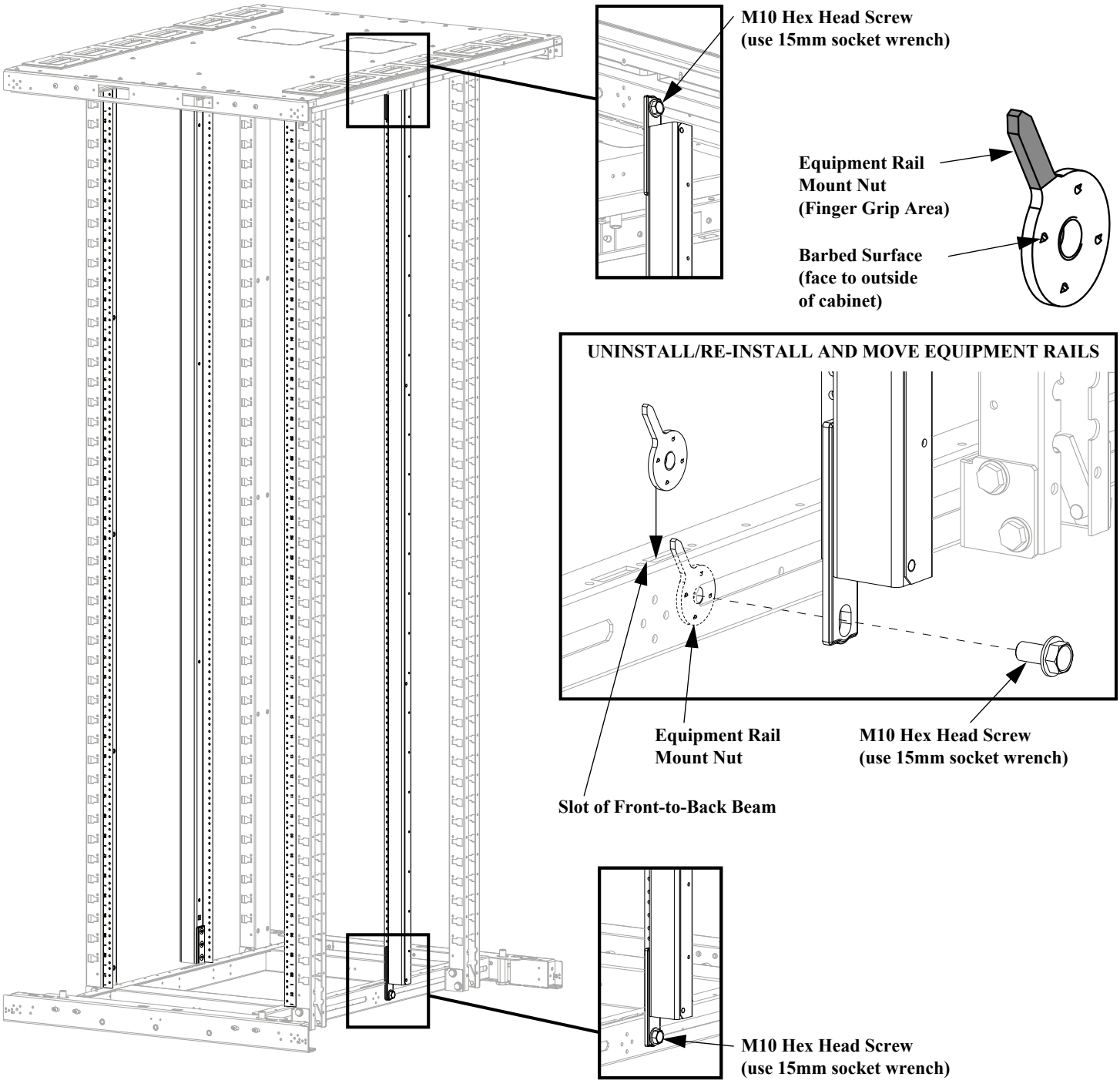
Equipment Rail Adjustment

- **Loosen M10 Hex Head Screw at top and bottom of rear equipment rail**
- **Adjust equipment rail to desired positon**
- **Tighten M10 Hex Head Screw to 30.0 +/- 5.0 N-m [22.1 +/- 3.7 Ft-lbs]**

NOTE: Front equipment rails are in a fixed position

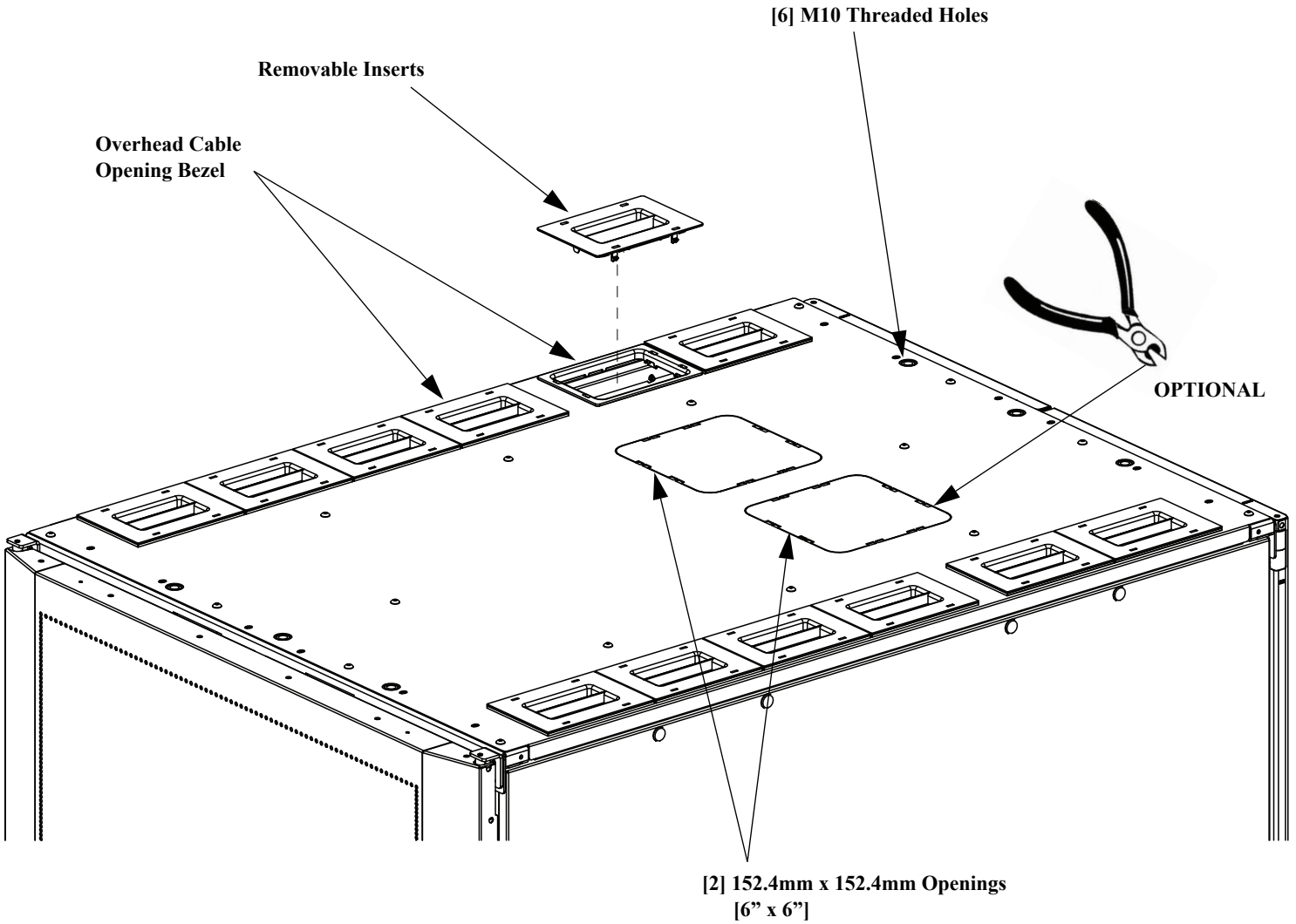
<u>Uninstall/Re-install and Move Equipment Rails</u> (Top and Bottom Locations)

- **Remove [2] M10 Hex Screws at top and bottom of Equipment Rail**
- **Remove [2] Equipment Rail Mount Nuts through slots of Front-to-Back Beam**
- **REVERSE STEPS to re-install Equipment Rails (insert Equipment Rail Mount Nuts through slots of Front-to-Back beam while holding finger grip of mount nut; ensure that barbed surface of Equipment Rail Mount Nut faces outside of cabinet)**



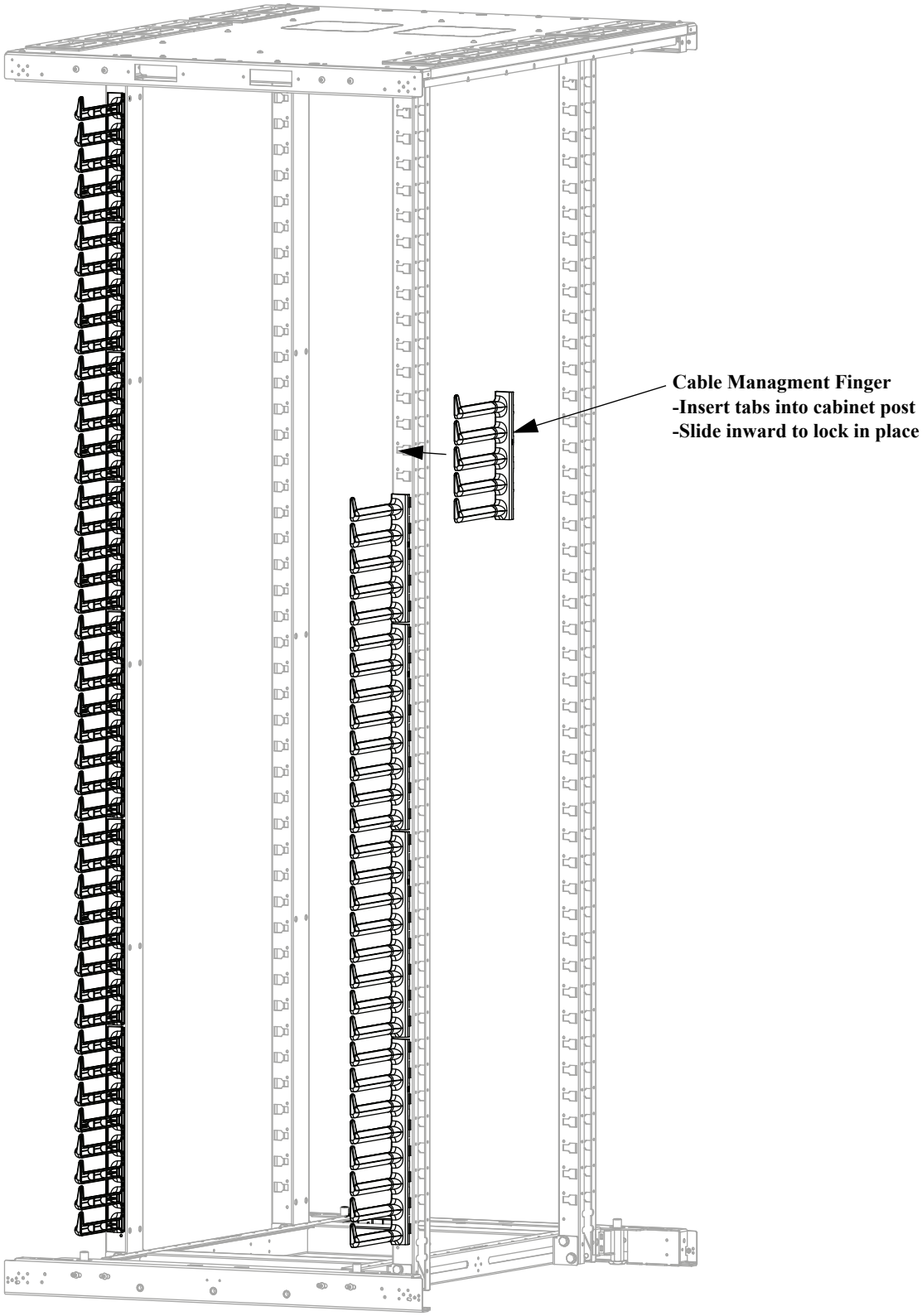
Overhead Cable Openings

- **Remove Bezel Insert to allow for overhead cable entry**
- **Cut [8] tabs with wire cutter to open large cable openings - OPTIONAL**
- **Install M10 threaded rod into [6] tapped holes, if desired**
- **[2] 152.4mm x 152.4mm [6” x 6”] openings can be used to route power overhead**
- **PANDUIT COOL BOOT™ products can be used to seal around cables/fiber to prevent hot air recirculation**



Cable Management Fingers (SN15F, SN25F)

- **Insert tabs of Cable Management Finger into mounting slots of cabinet post**
- **Slide Cable Management Finger inward to lock into place**

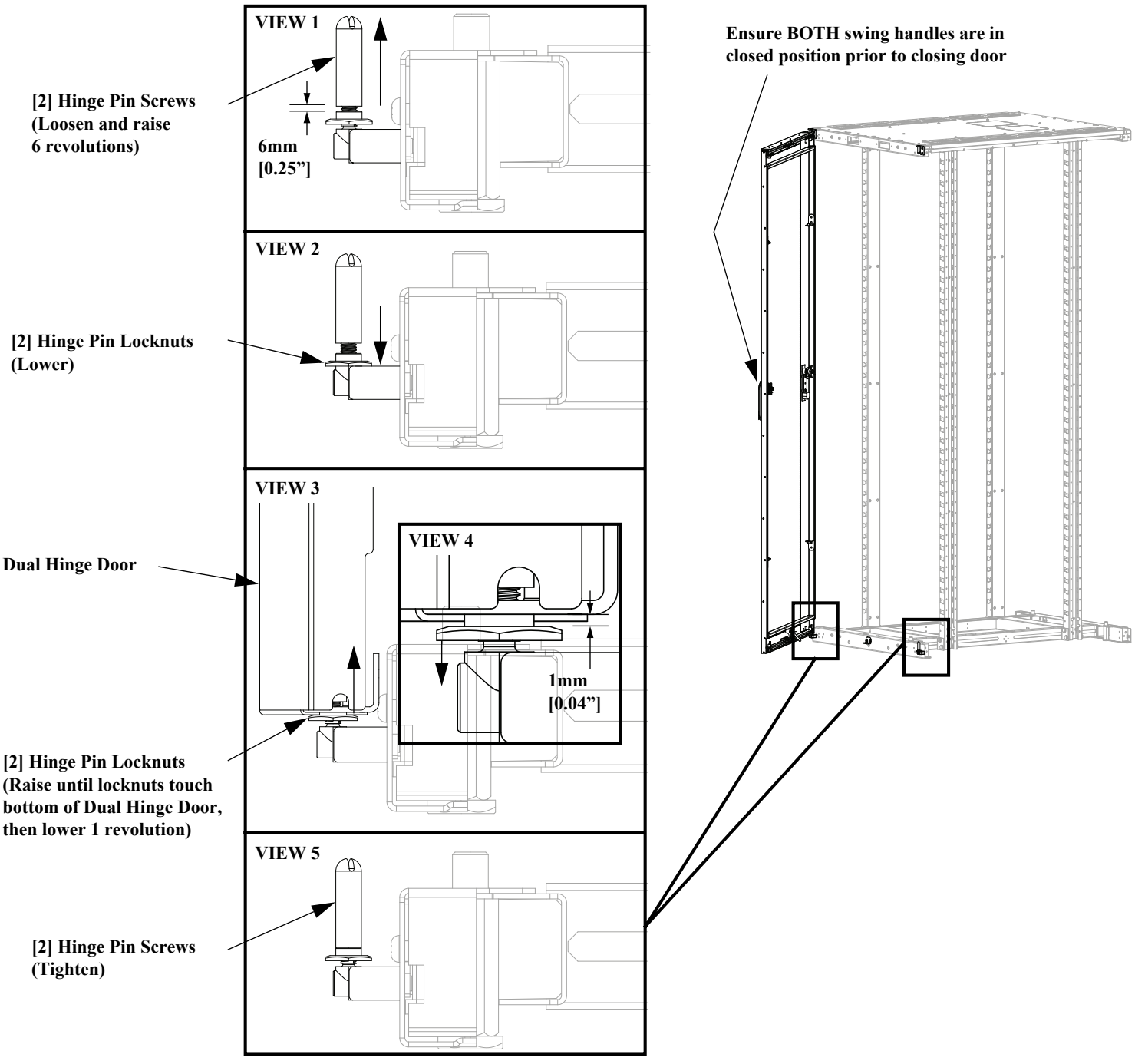


Dual Hinge Door (Operation)

NOTE: Door is push-to-close. PANDUIT recommends closing handle after opening door and simply push door when closing

<u>Door Function Adjustment</u> (optimize door operation)

- **Remove Dual Hinge Door from cabinet (or open one side at a time)**
- **VIEW 1 Loosen [2] Hinge Pin Screws at bottom of cabinet and raise by approximately 6 revolutions (6mm [0.25”])**
- **VIEW 2 Lower [2] Hinge Pin Locknuts to bottom of Hinge Pin Post Screw (if nut is not lowered; factory setting of nut is fully-lowered)**
- **Reinstall Dual Hinge Door (see page 15)**
- **VIEW 3, VIEW 4 Raise [2] Hinge Pin Locknuts until locknuts touch bottom of Dual Hinge Door, then lower locknut 1 revolution**
- **VIEW 5 Open each side of Dual Hinge Door and tighten [2] Hinge Pin Screws**
- **Close Dual Hinge Door**
- **If Dual Hinge Door interferes with Hinge Pin Locknut, lower locknut until there is no interference**

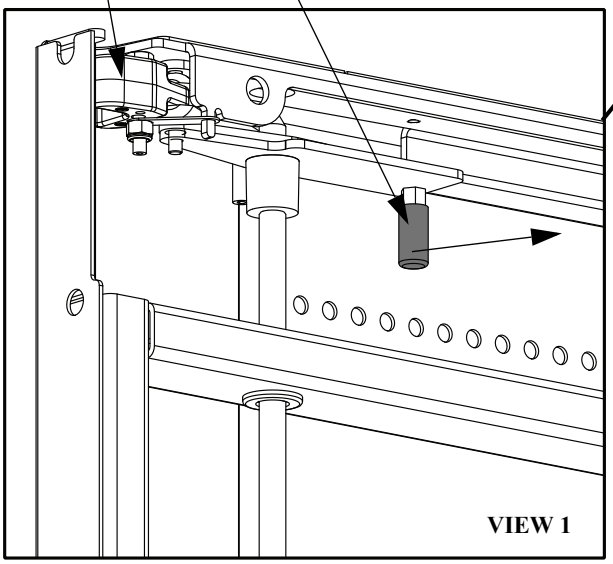

VIEW 1
[2] Hinge Pin Screws (Loosen and raise 6 revolutions)
6mm [0.25”]
VIEW 2
[2] Hinge Pin Locknuts (Lower)
VIEW 3
VIEW 4
Dual Hinge Door
1mm [0.04”]
[2] Hinge Pin Locknuts (Raise until locknuts touch bottom of Dual Hinge Door, then lower 1 revolution)
VIEW 5
[2] Hinge Pin Screws (Tighten)
Ensure BOTH swing handles are in closed position prior to closing door

Dual Hinge Door (Removal)

- **Open both swing handles**
- **VIEW 1 <u>While supporting weight of door</u>, pull red finger handle to toggle latch of <u>open side</u> of door to <u>CLOSED</u> position (VIEW 4)**
- **VIEW 2 Remove door from cabinet frame by pushing top of hinged side of door away from cabinet**
- **Lift door off bottom hinge pin**

Latch in <u>CLOSED</u> Position {See VIEW 4)

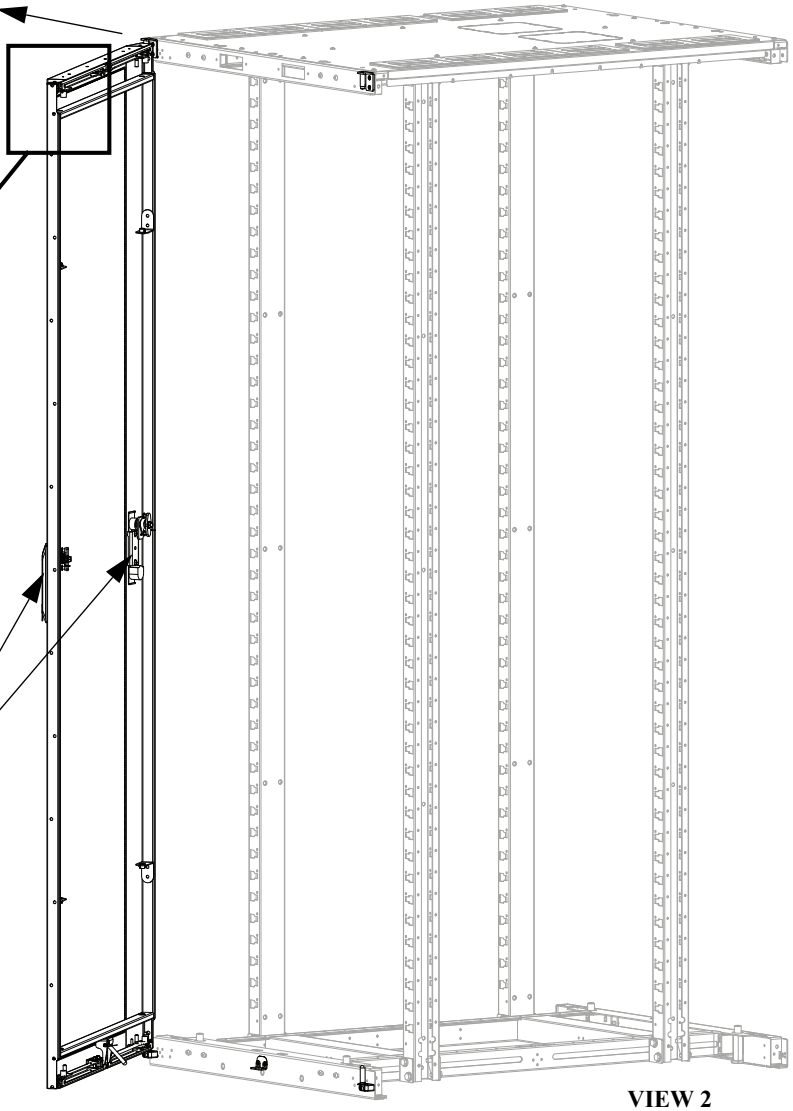
Red Finger Pull



VIEW 1

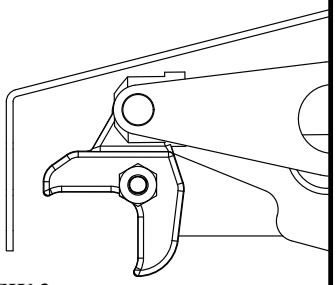
Push Door Away From Cabinet (ensure that: both swing handles are open and <u>open side</u> latch is toggled to <u>CLOSED</u> position as shown in VIEW 4)

Swinghandles



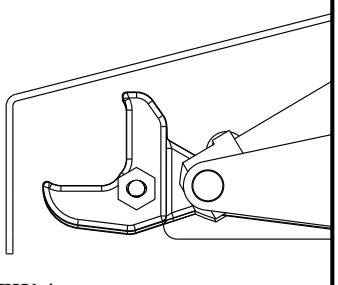
VIEW 2

<u>OPEN</u> POSITION



VIEW 3

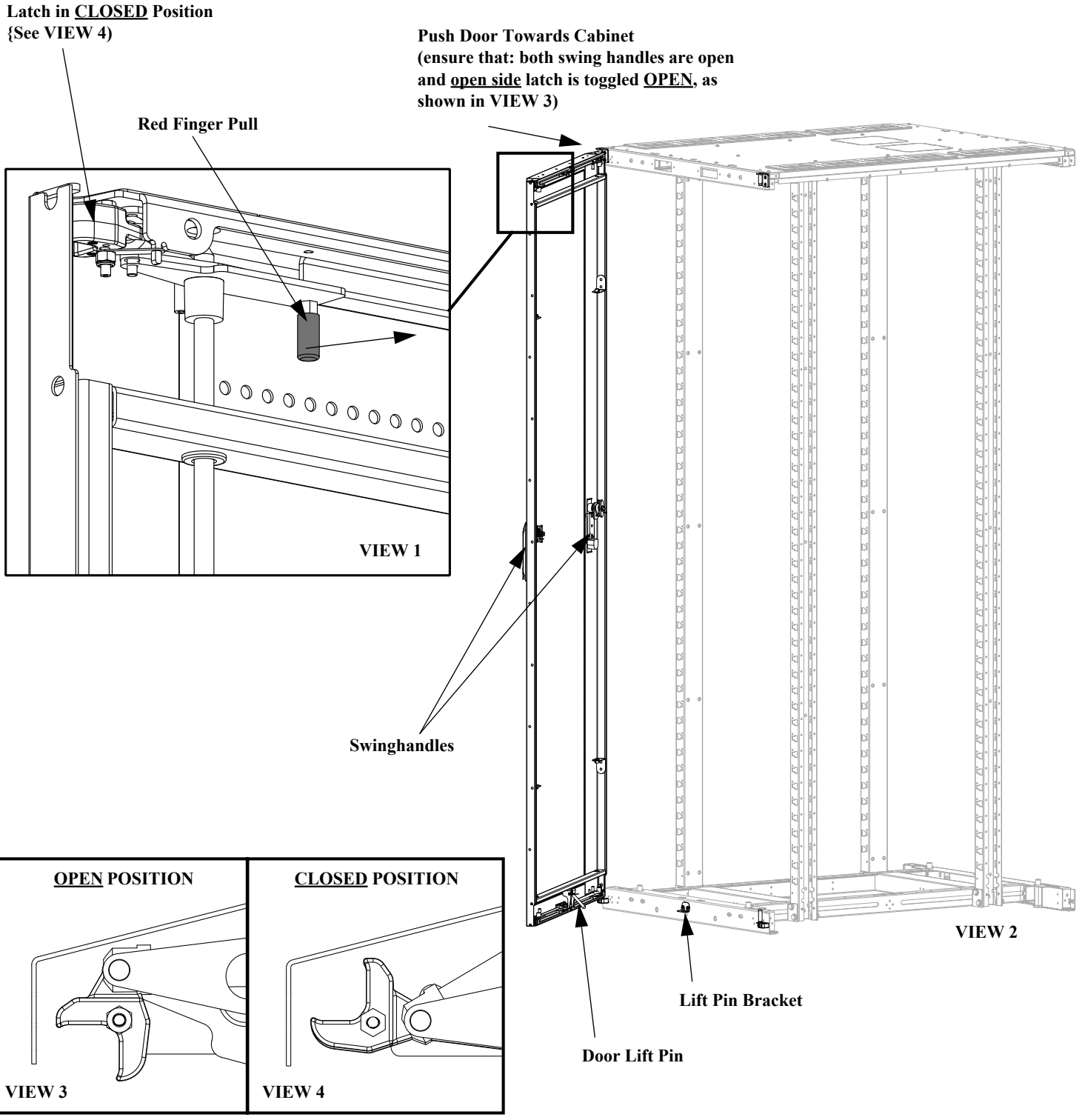
<u>CLOSED</u> POSITION



VIEW 4

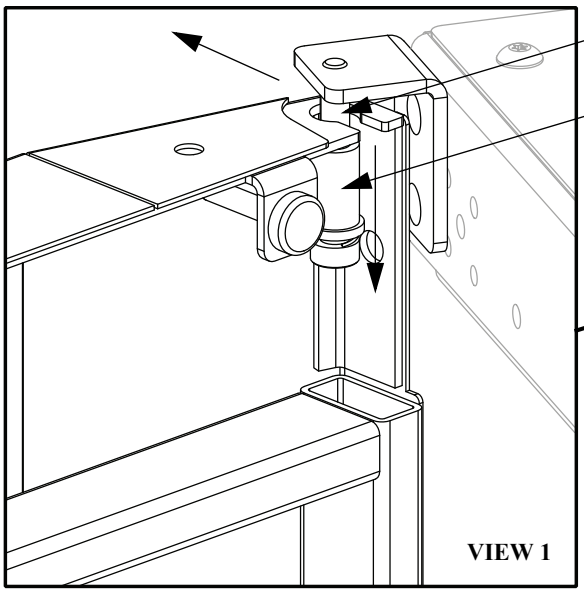
Dual Hinge Door (Installation)

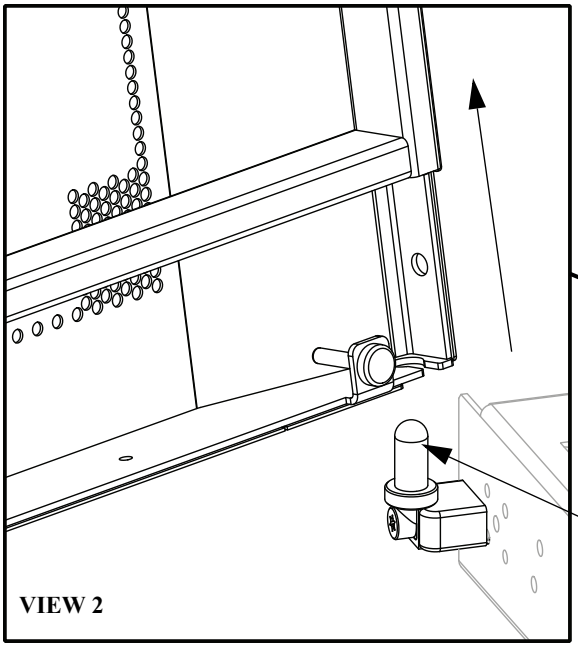
- **Open both swing handles**
- **VIEW 1 Ensure one top latch is OPEN (VIEW 3) and the other is CLOSED (VIEW 4; pull red finger handle to toggle latches)**
- **Lift door (with CLOSED bottom latch) onto bottom hinge pin**
- **VIEW 2 While supporting weight of door, align OPEN top latch with cabinet and push door against cabinet until latched**
- **VIEW 1 Pull red finger handle to toggle top latch of open side to OPEN (VIEW 3) position**
- **Close both swing handles**
- **Close door**

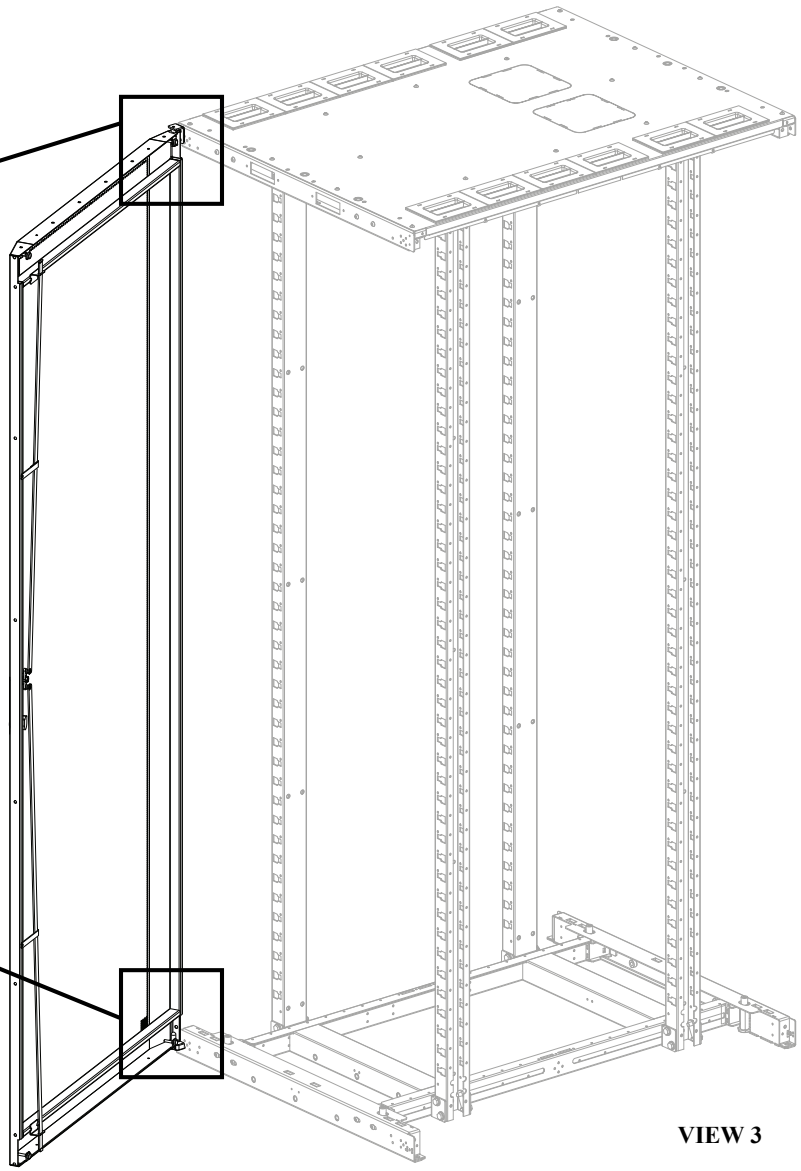


Single Hinge Door (Removal and Installation)

- **VIEW 1 Pull down Compression Sleeve at top door hinge**
- **VIEW 1 Pull Single Hinge Door away from cabinet so that Top Hinge Screw fits through cutout of door**
- **VIEW 2 Lift bottom of door off Bottom Hinge Pin**
- **REVERSE STEPS to install Single Hinge Door**





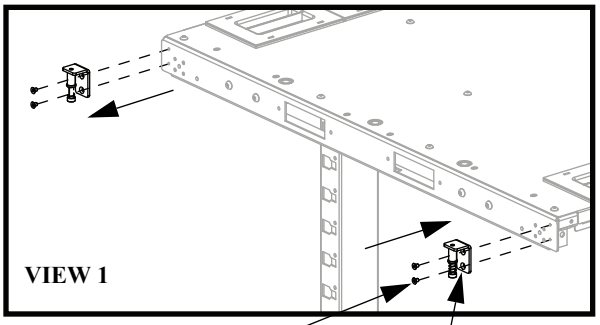


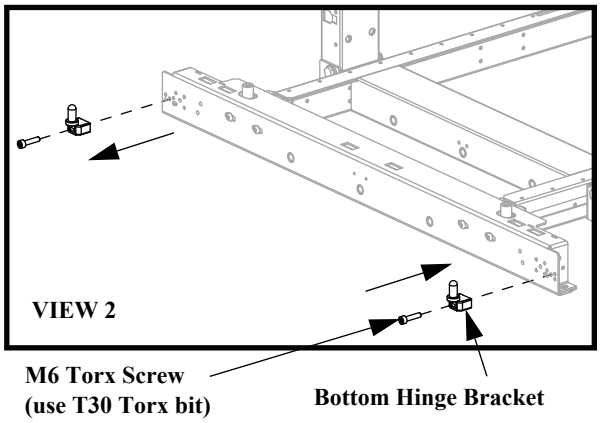
Single Hinge Door (Door Handle Direction Reversal)

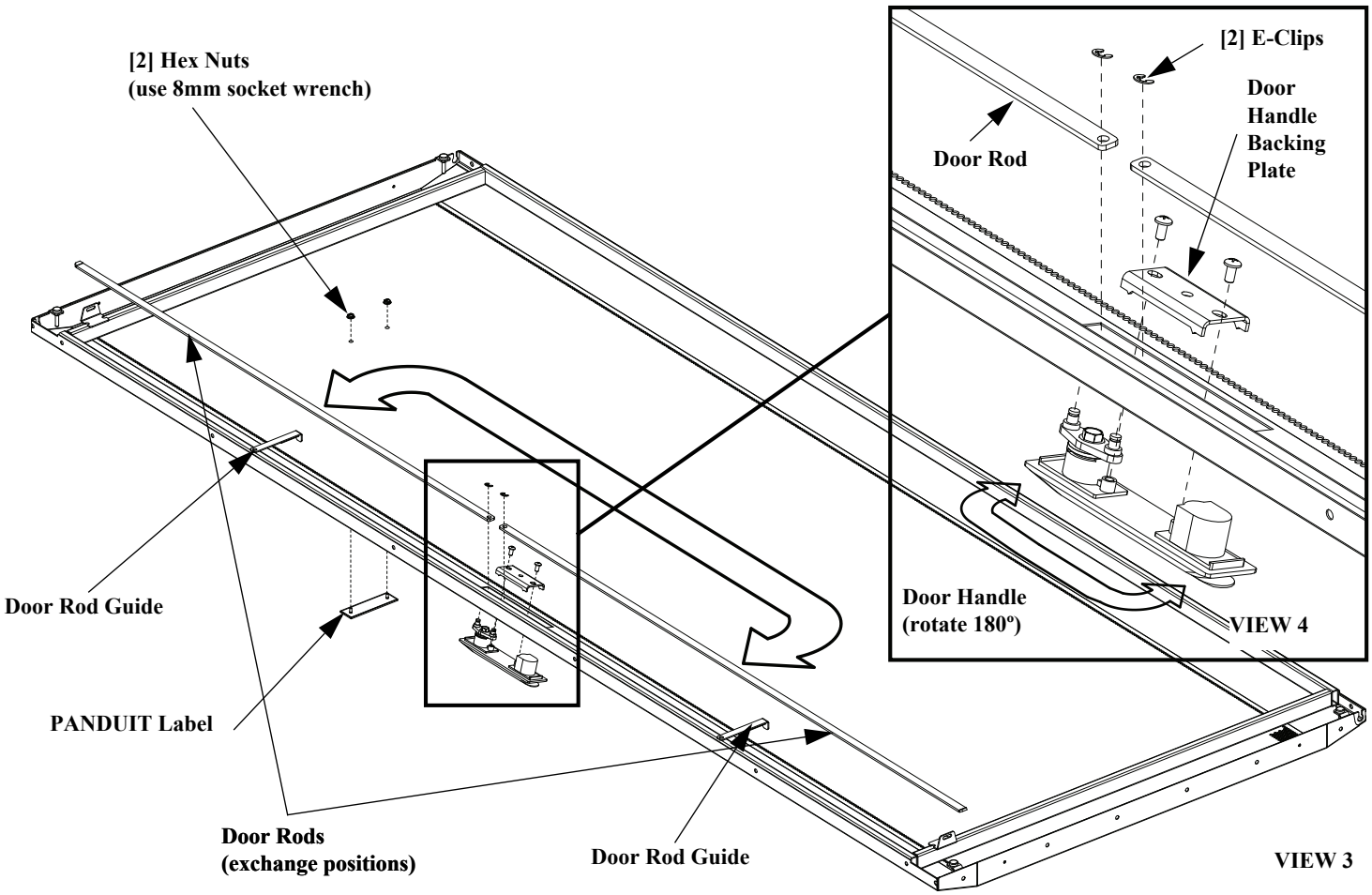
- **VIEW 1, 2 Remove Top and Bottom Hinge Brackets from current location (remove top hinge screw, if necessary)**
- **VIEW 1, 2 Install Top and Bottom Hinge Brackets on opposite side of cabinet (re-install top hinge screw, if necessary)**

<u>Door Handle Reversal</u> (Lay door on a flat surface) - VIEW 3, 4

- **Remove [2] E-clips from Door Handle Cam and exchange positions of Top and Bottom Door Rods**
- **Remove Door Handle Backing Plate and rotate position of Door Handle 180º**
- **With Door Handle repositioned, secure Door Handle Backing Plate to Door Handle**
- **Attach Top and Bottom Door Rods to Door Handle Cam with [2] E-clips (ensure that door rods are behind door rod guides)**
- **Remove PANDUIT label and re-attach in correct orientation near top of door**
- **Reinstall Single Hinge Door per instructions on Page 16**

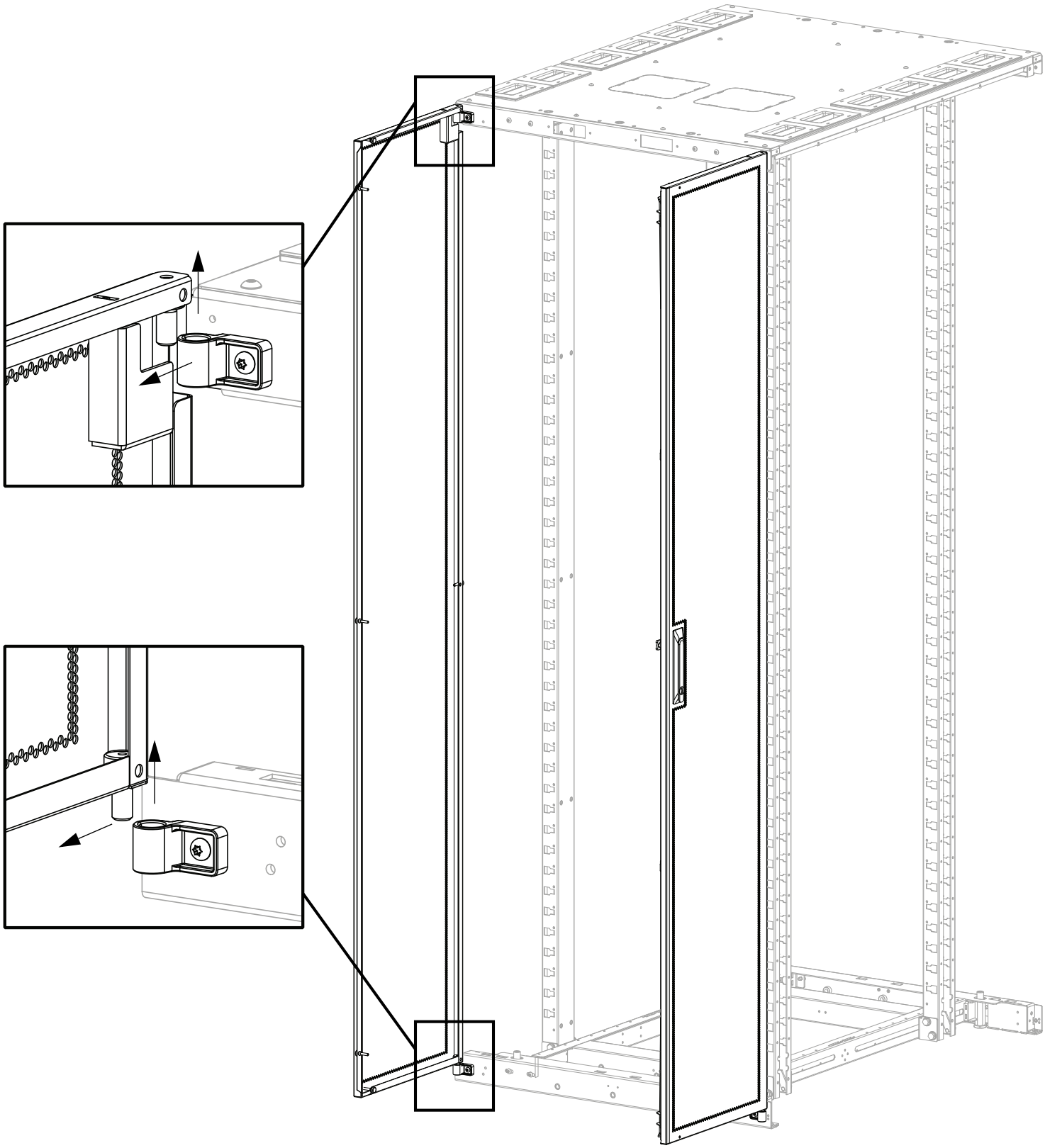






Rear Split Doors (Removal and Installation)

- **Open Rear Split Doors to approximately 90º**
- **Lift Rear Split Doors up pull doors away from cabinet frame**
- **REVERSE STEPS to install Rear Split Doors**



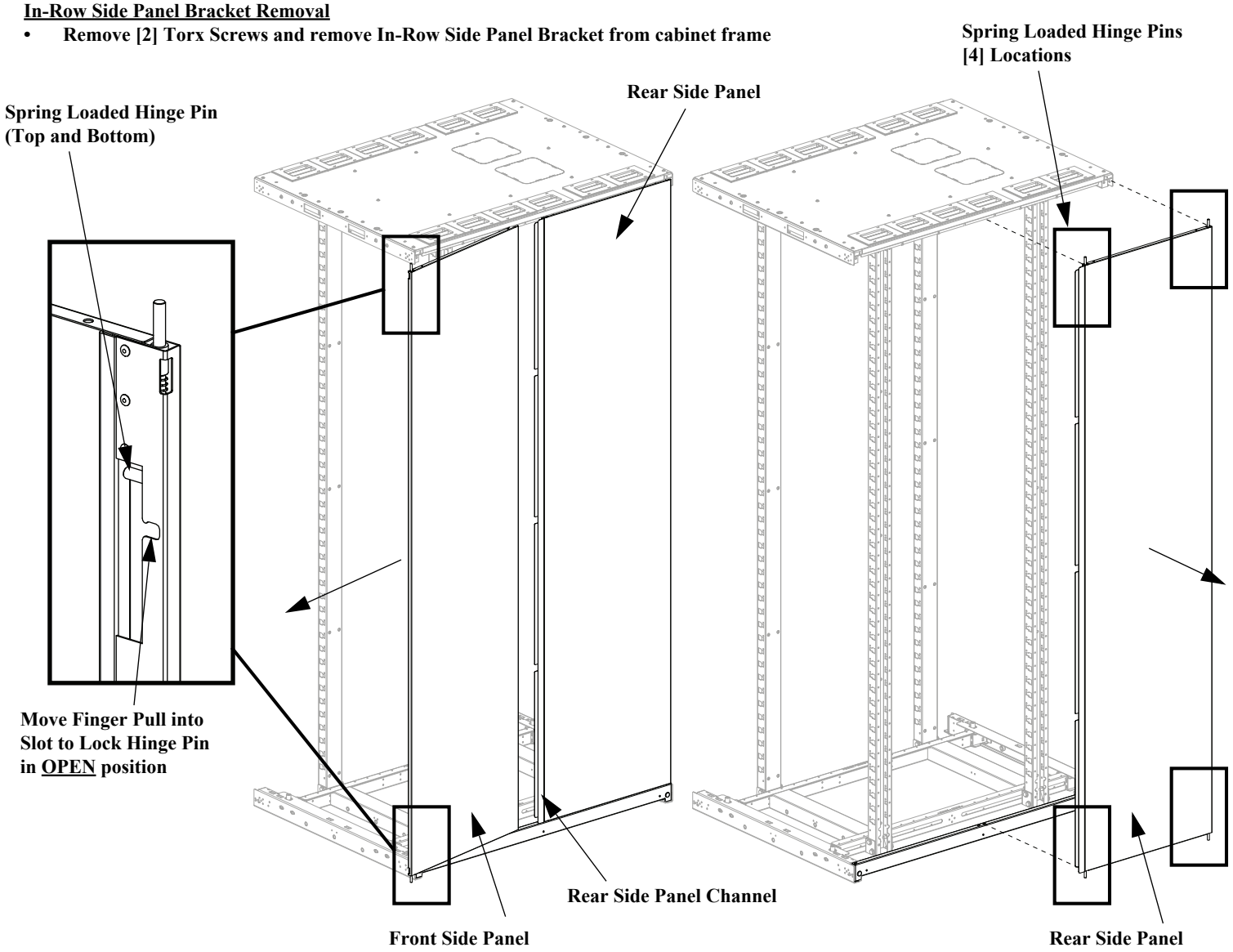
In-Row Side Panel (Removal and Installation)

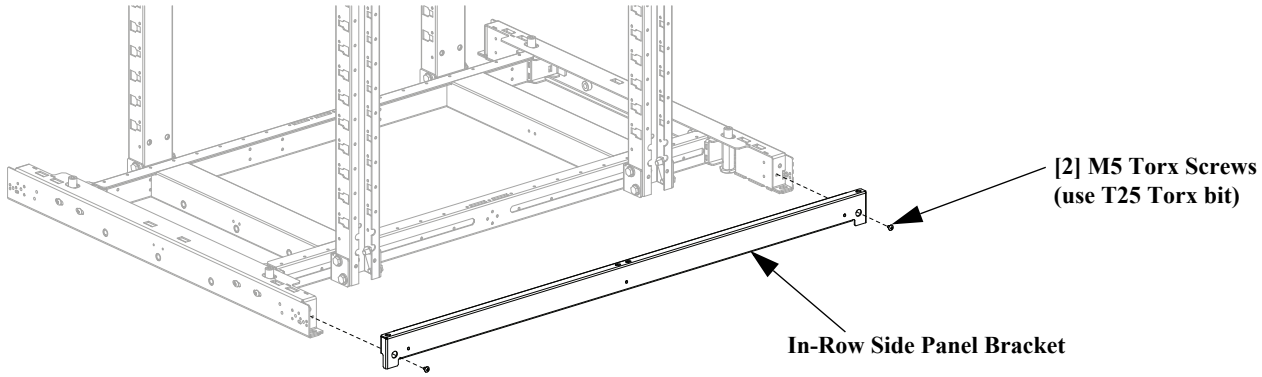
- **Pull [2] Spring Loaded Hinge Pins to release Front Side Panel from cabinet frame**
- **Remove Front Side Panel by pulling panel out of Rear Side Panel channel (towards front of cabinet)**
- **Pull [4] Spring Loaded Hinge Pins to release Rear Side Panel from cabinet frame**
- **REVERSE STEPS to install In-Row Side Panels**

IMPORTANT: Install Rear Side Panel First

<u>In-Row Side Panel Bracket Removal</u>

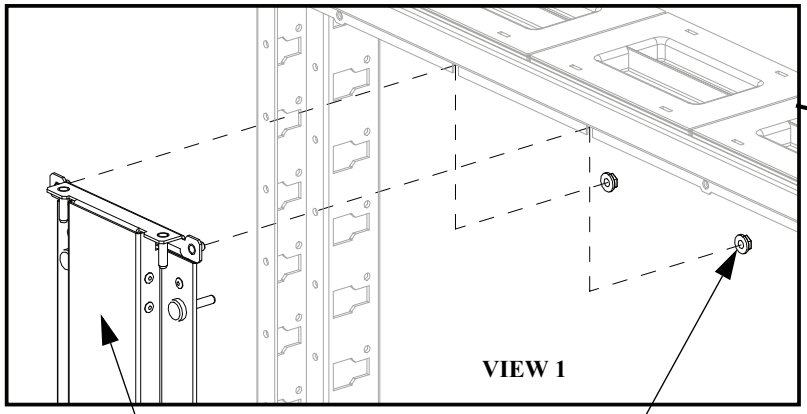
- **Remove [2] Torx Screws and remove In-Row Side Panel Bracket from cabinet frame**





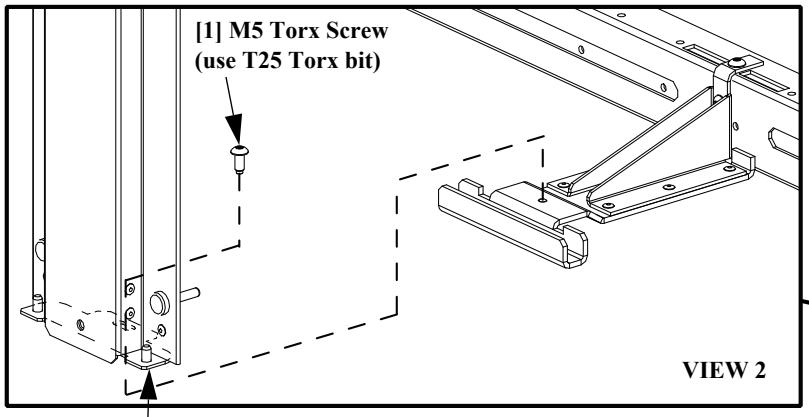
Split/Hinged Side Panels (N21SPH, N22SPH, N51SPH, N52SPH)

- **VIEW 3 Secure Bottom Support Bracket to cabinet frame with [3] M5 Torx Screws**
- **VIEW 1, 2 Secure Vertical Support Bracket to cabinet frame and bottom support bracket with [1] M5 Torx Screw and [2] Hex Nuts**
- **See Page 21 for Side Panel Installation Instructions**

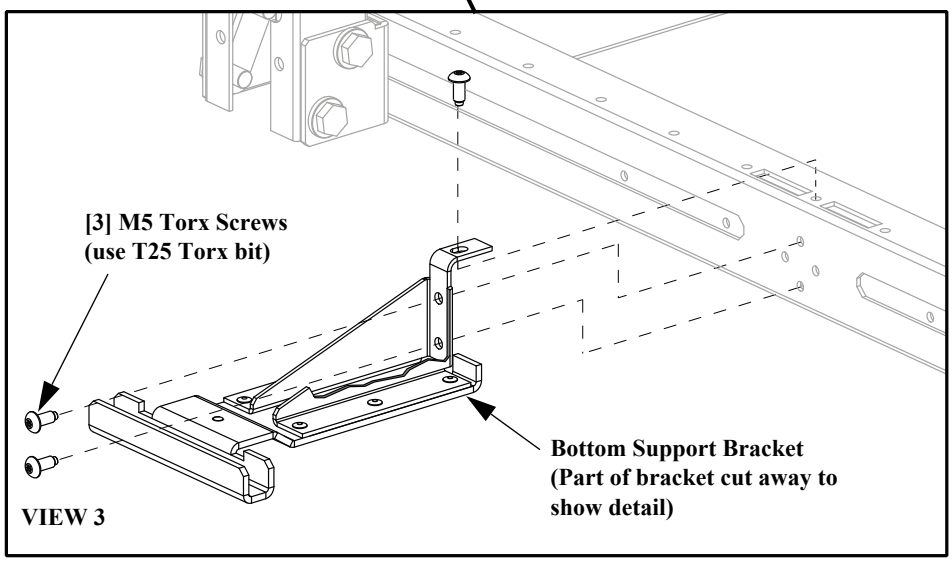


Vertical Support Bracket (Top)

[2] Hex Nuts (use 6mm Socket Wrench)

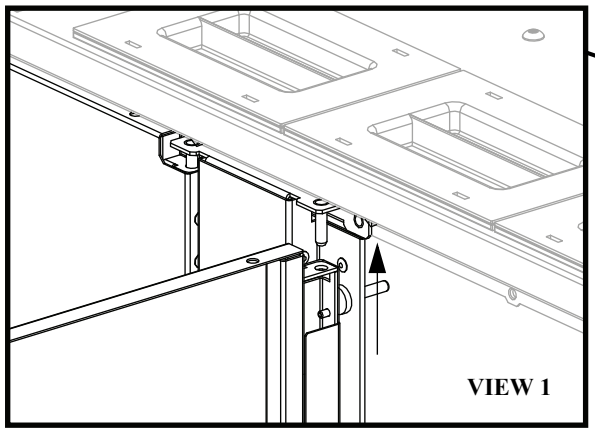


Vertical Support Bracket (Bottom)

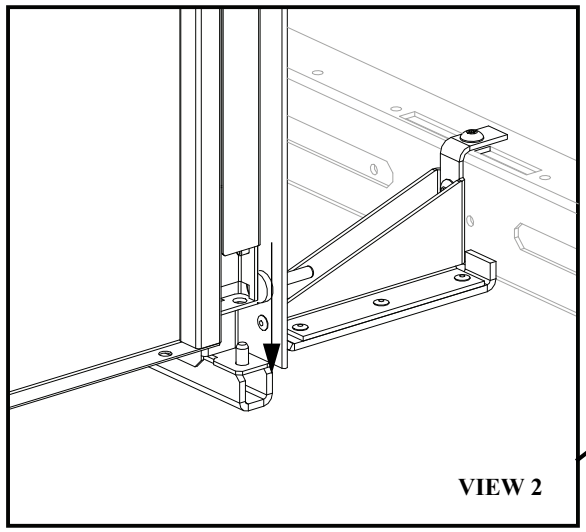


Split/Hinged Side Panels (N21SPH, N22SPH, N51SPH, N52SPH)

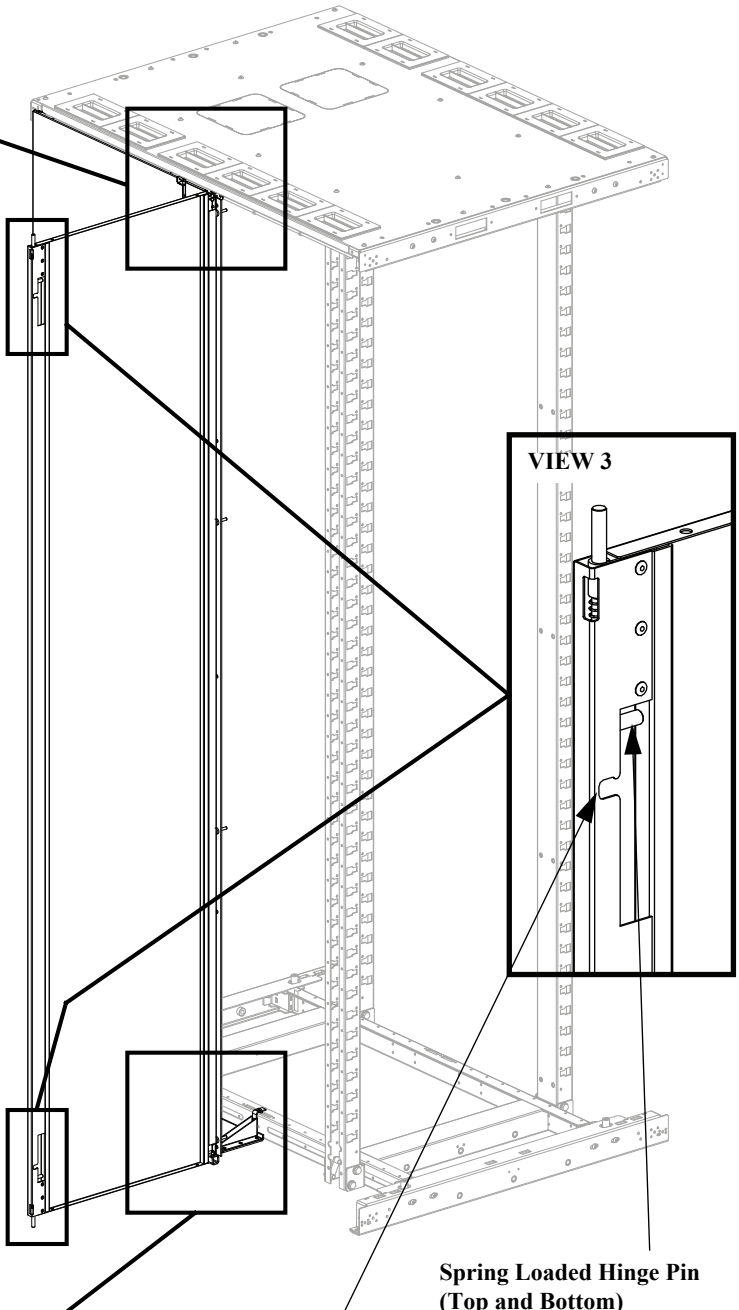
- **Open Side Panel to approximately 90º**
- **VIEW 1 Lift Top Hinge Point of Side Panel onto top pin of Vertical Support Bracket**
- **VIEW 2 Lower Bottom Hinge Point of Side Panel onto bottom pin of Vertical Support Bracket**
- **VIEW 3 Close Side Panel and secure top and bottom of Side Panel to cabinet frame with [2] Spring Loaded Hinge Pins**



Lift Top Hinge Point of Side Panel onto Top Pin of Vertical Support Bracket



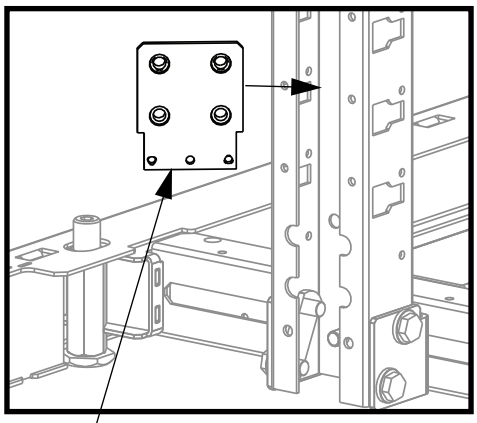
Lower Bottom Hinge Point of Side Panel onto Bottom Pin of Vertical Support Bracket



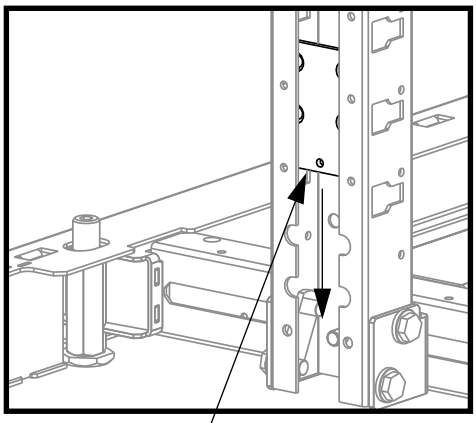
Caster Kit Installation (NCSTR4)

- **Install [4] Caster Mounting Plates into posts of cabinet (insert bracket into post in an angled position from above mounting location, rotate bracket, and align bracket with mounting holes)**
- **Install [2] M5 screws into bottom holes of Caster Mounting Plate through cabinet post (as shown below)**
- **Secure [4] Caster Assemblies to Caster Mounting Plates**

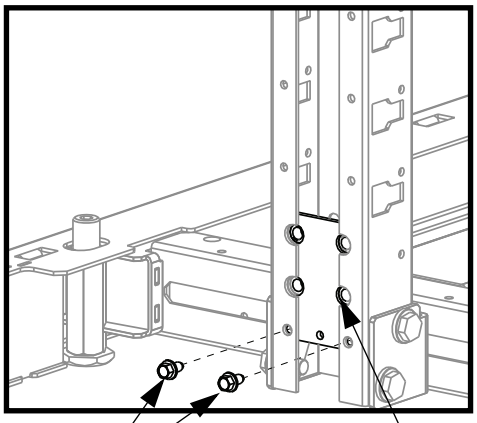
NOTE: Ensure that fixed casters and swivel casters are paired together at front and rear of cabinet



Caster Mounting Plate

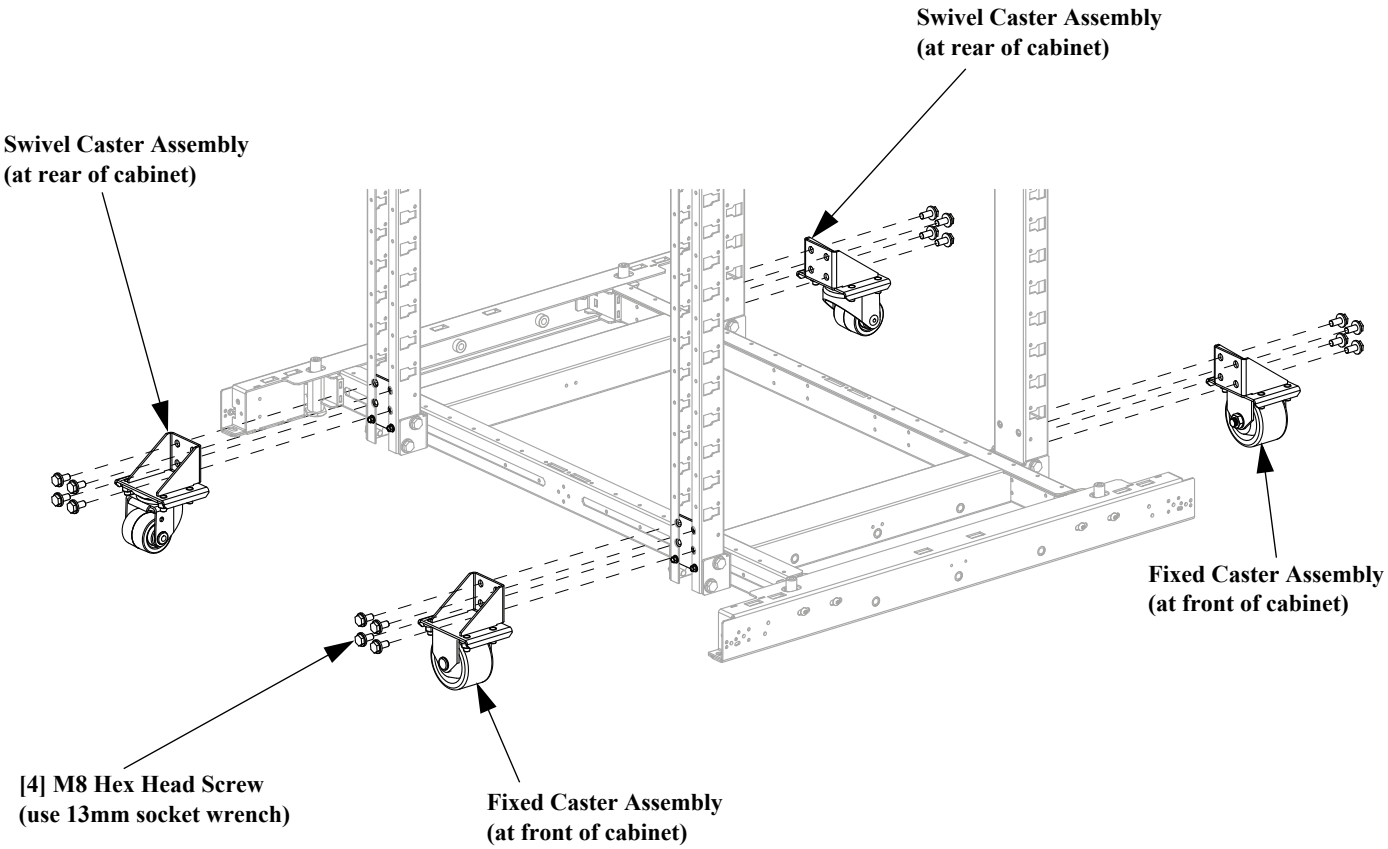


Caster Mounting Plate



[2] M5 Hex Head Screw (use 7mm socket wrench)

Caster Mounting Plate



Swivel Caster Assembly (at rear of cabinet)

Swivel Caster Assembly (at rear of cabinet)

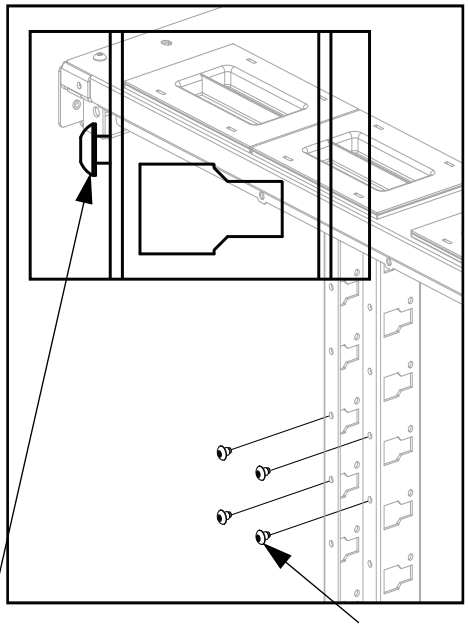
Fixed Caster Assembly (at front of cabinet)

[4] M8 Hex Head Screw (use 13mm socket wrench)

Fixed Caster Assembly (at front of cabinet)

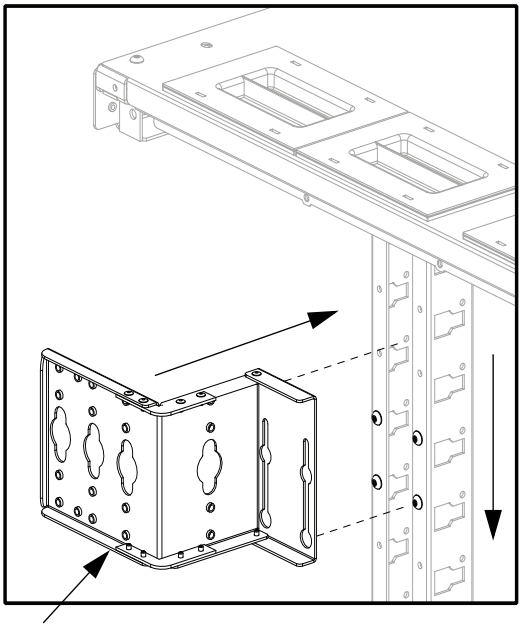
PDU Bracket Kit Installation

- **Install [4] M5 Torx Screws into desired top location of cabinet post, as shown below**
- **Do not tighten screws - Leave a gap between screw and cabinet post for bracket thickness**
- **Place Top PDU Bracket over screw heads and slide up (or down, depending on mounting side of cabinet)**
- **Install Bottom PDU Bracket at desired distance from Top PDU Bracket**
- **Tighten [8] M5 Torx Screws**

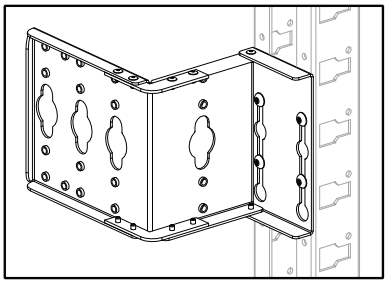


DO NOT TIGHTEN
(Leave Gap Between Screw and Cabinet Post)

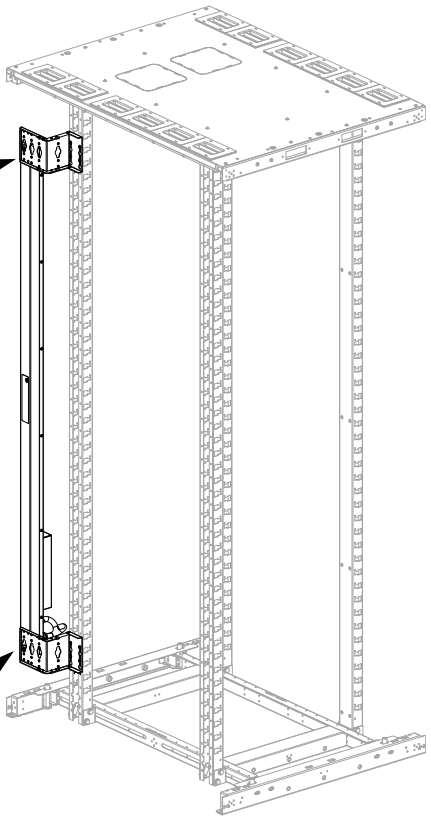
[4] M5 Torx Screws (use T25 Torx bit)



PDU Bracket



PDU Bracket (installed)

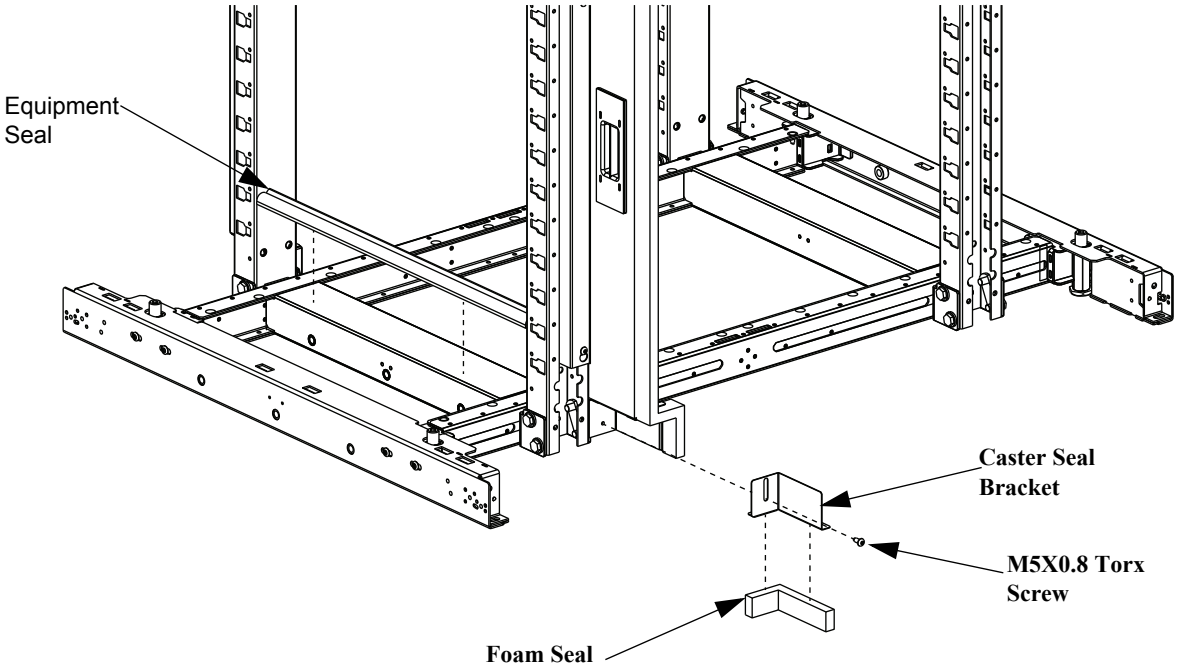


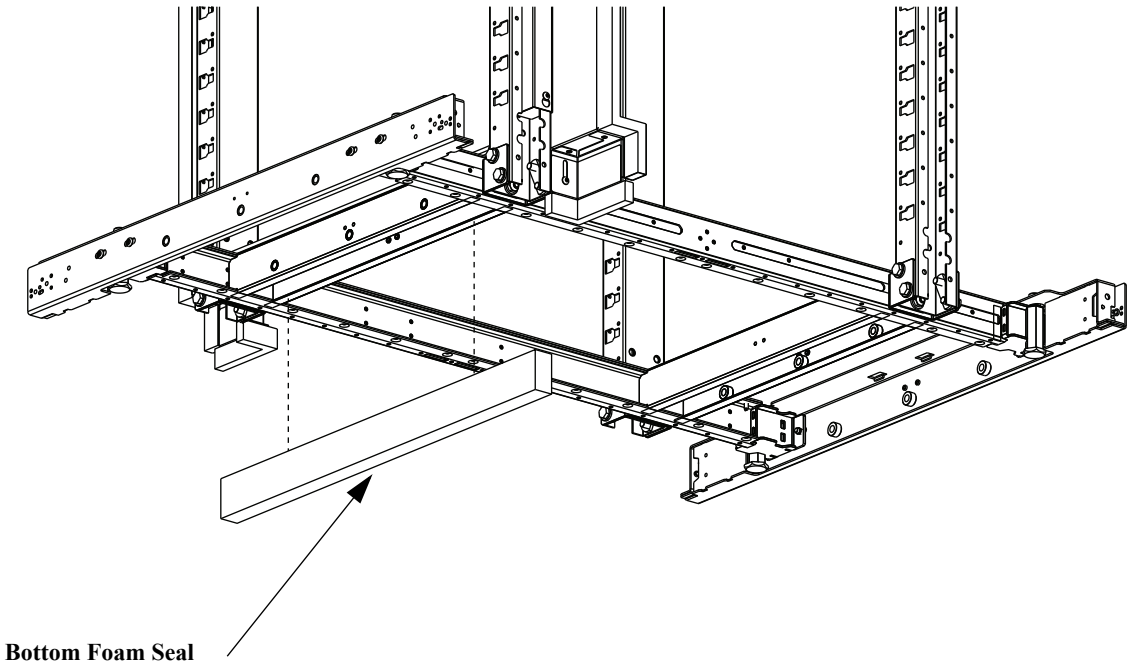
Top PDU Bracket

Bottom PDU Bracket

Cabinet Seal Kit Installation

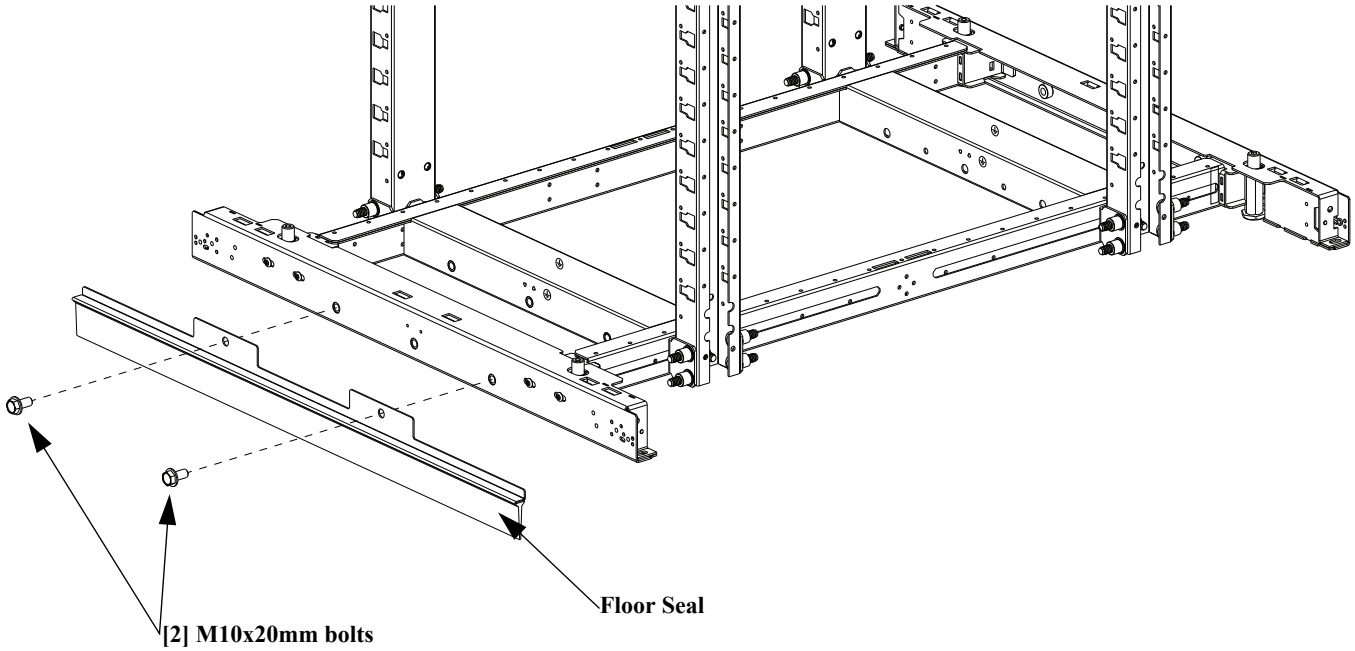
- **Install Foam Seal to the caster seal brackets on the bottom flange.**
- **Install (2) Caster Seal Brackets (1 Left, 1 Right) to the bottom Air dam assembly using (1) M5X0.8 button head torx screw. (do not tighten)**
- **Install Equipment Seal to the top of the lower front side to side beam and to the bottom of the upper side to side beam, between the front E-rails.**
- **Install foam seal to the rear flange of the front side to side beam.**
  *When cabinet is level adjust caster seal brackets to create an air tight seal to the floor. Tighten screws.

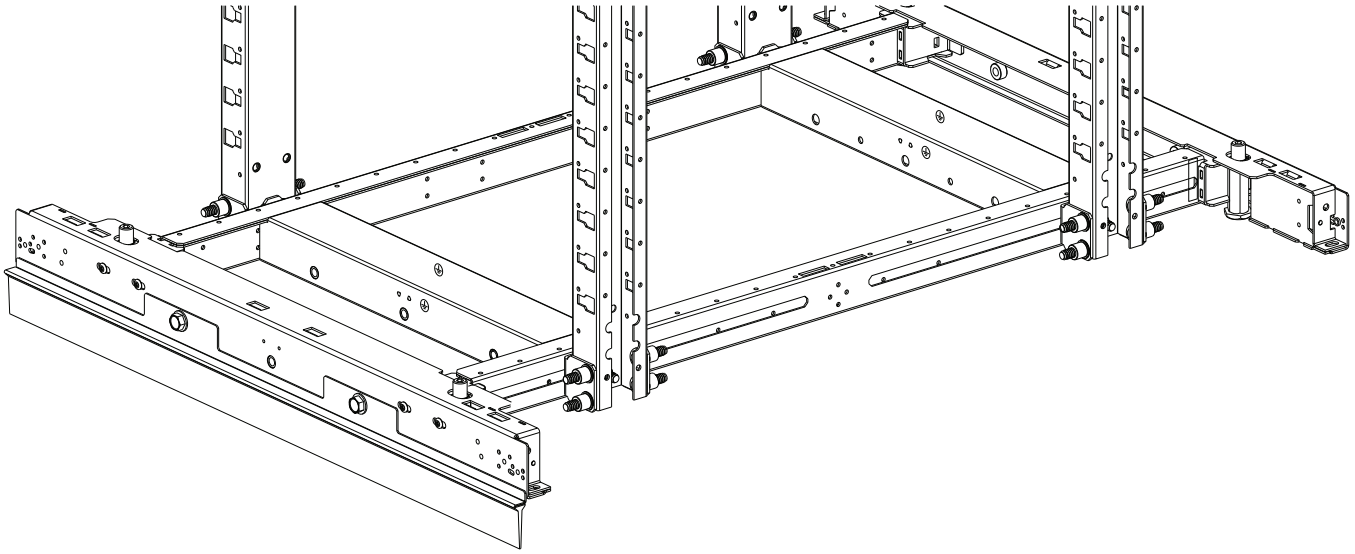




Front and Rear Floor Seal Installation

- **Install Floor Seal to front or rear of cabinet frame using (2) M10x20mm bolts. (Flange on floor seal will face outward away from the cabinet.)**

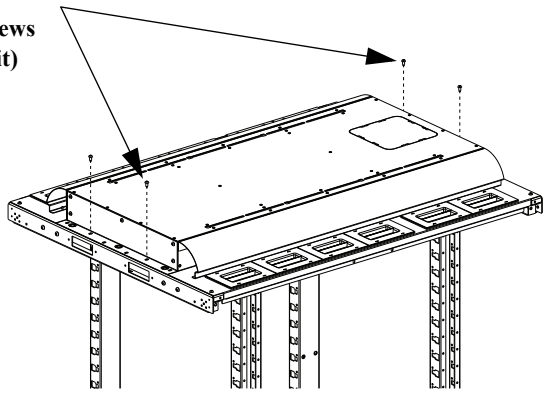




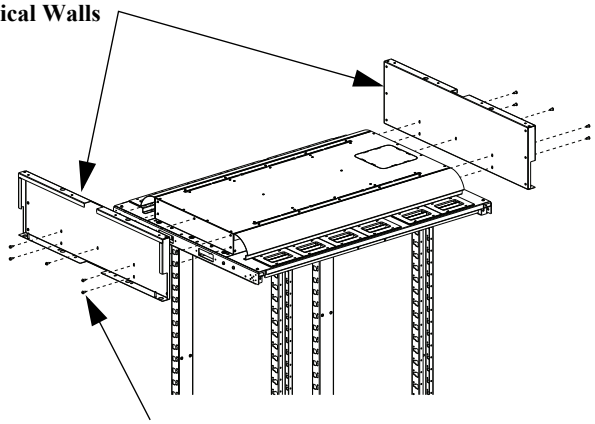
Top of Cabinet Cable Manager Installation

- **Disassemble front fascia assemblies (packaged in cabinet) by removing (2) M5x0.8 button head screws (use T25 Torx bit).**
- **Remove (2) M5x0.8 button head screws (use T25 Torx bit) from front and rear of Cable Manager base.**
- **Install vertical walls on front and back of Cable Manager base using (5) M5x0.8 button head Torx screws (use T25 Torx bit). Re-install screws from previous step to secure to the frame.**
- **Attach front fascia to the front vertical wall by sliding fascia over studs in vertical wall.(see detail view). Tighten with (4) M5x0.8 button head screws (use T25 Torx bit).**
- **Attach rear fascia to the rear vertical wall by sliding fascia over studs in vertical wall (see detail view). Tighten with (4) M5x0.8 button head screws (use T25 Torx bit).**

- Remove -
[4] M5 Torx Screws
(use T25 Torx bit)



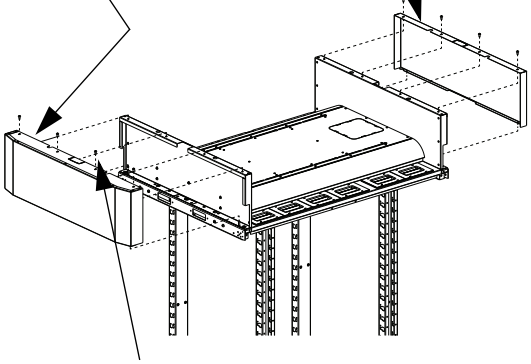
[2] Vertical Walls



[5] M5 Torx Screws
(use T25 Torx bit)

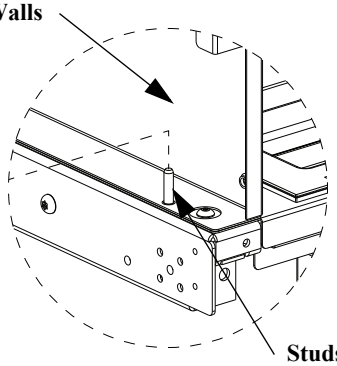
Rear Fascia

Front Fascia

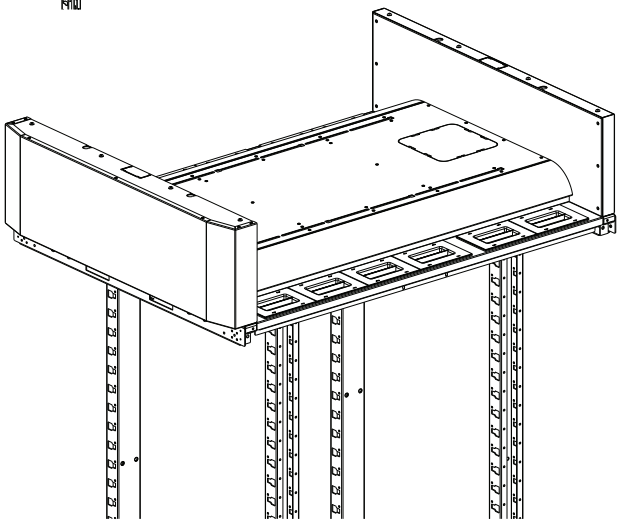


[4] M5 Torx Screws
(use T25 Torx bit)

[2] Vertical Walls



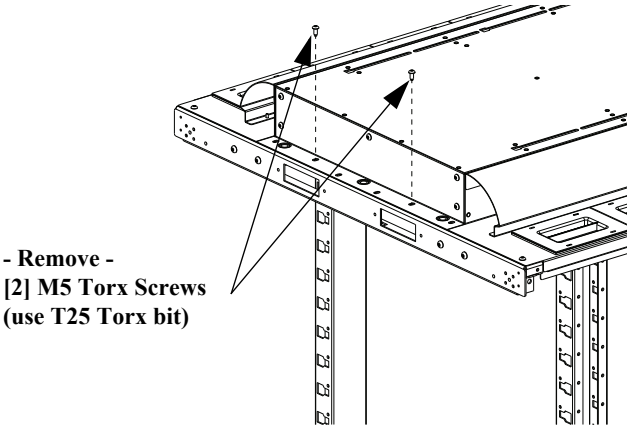
Studs

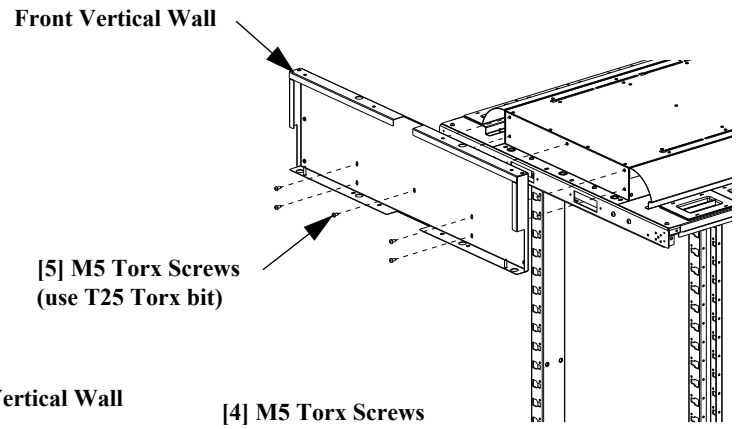


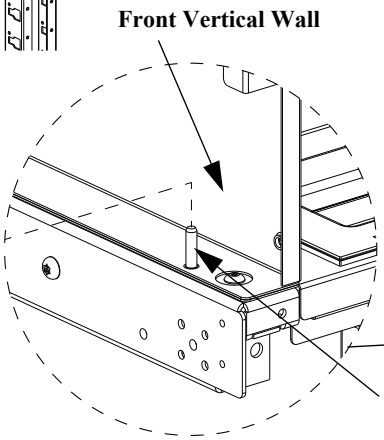
Top of Cabinet Cable Manager Installation (for vertical exhaust ducts)

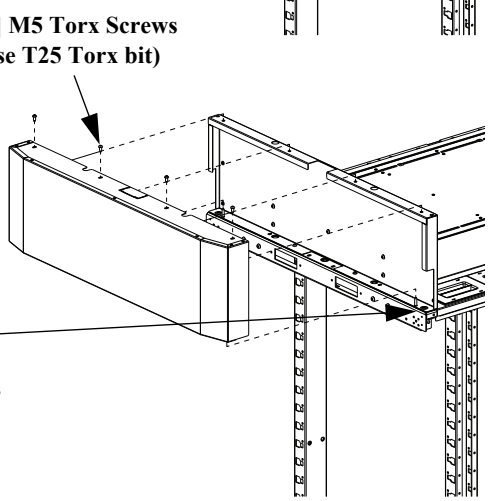
IMPORTANT - INSTALL VERTICAL EXHAUST DUCT PRIOR TO INSTALLING REAR VERTICAL WALL

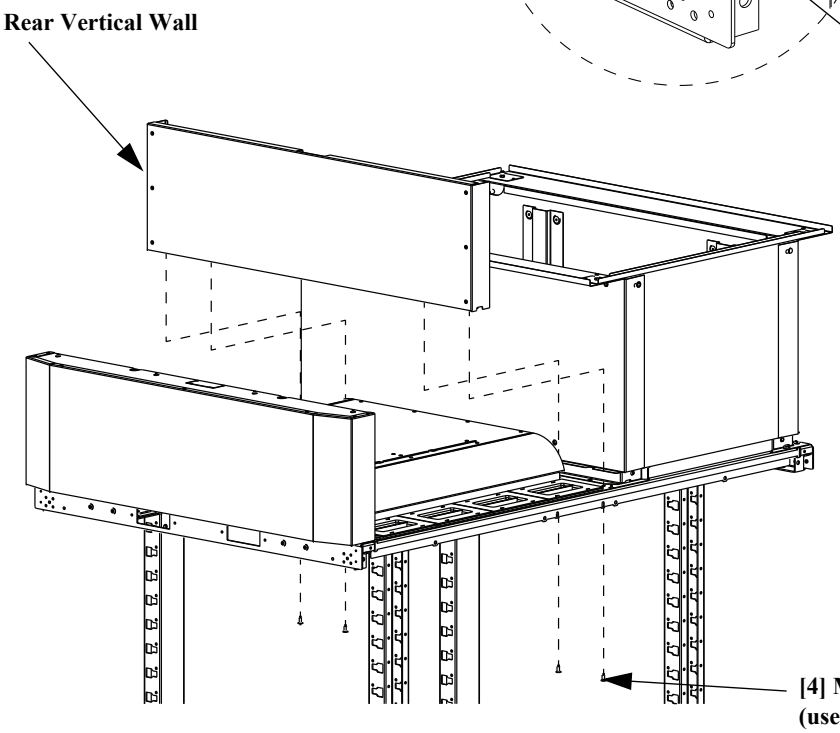
- **Disassemble front fascia assemblies (packaged in cabinet) by removing (2) M5x0.8 button head screws (use T25 Torx bit).**
- **Remove (2) M5x0.8 button head screws (use T25 Torx bit) from front of Cable Manager base.**
- **Install vertical wall on front of Cable Manager base using (5) M5x0.8 button head Torx screws (use T25 Torx bit). Re-install screws from previous step to secure to the frame.**
- **Attach front fascia to the front vertical wall by sliding fascia over studs in vertical wall.(see detail view). Tighten with (4) M5x0.8 button head screws**
- **Attach rear vertical wall to the Cable Manger with (4) M5x0.8 button head screws (use T25 Torx bit) from underneath Top of Cabinet Cable Manager.**











IMPORTANT
VERTICAL EXHAUST DUCT MUST BE INSTALLED PRIOR TO INSTALLATION OF REARVERTICALWALL

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